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5-1-1 Single-color Lamps

■ Absolute Maximum Ratings

($T_a=25^{\circ}\text{C}$)

Parameter	Unit	Ratings						Conditions
		GaP	GaAsP	GaAlAs	AlGaInP	InGaN	GaN	
I _F	mA	30						
ΔI _F	mA/°C	-0.45						Above 25°C
I _{FP}	mA	100				70		f=1kHz, tw≤100μs
V _R	V	3		4		5		
Top	°C	-30~+85			-25~+85			
Tstg	°C	-30~+100						

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (Ta=25℃)				Direct Mount	Fig. No.
				I _F =10mA (V)		Intensity		Peak Wave-	Chip Material		
						I _V	Conditions I _F	length λP (mm)			
				typ	max	typ	(mA)	typ			
5φ round type	SEL1110R	Deep red	Diffused red	2.0	2.5	2.8	5	700	GaP	×	
	Diffused white		2.8			×					
	Transparent red		4.5			×					
	SEL1610W	High-intensity red	Diffused white	1.75	2.2	1000	20	660	GaAlAs	×	
	Clear		1200			×					
	SEL1210R	Red	Diffused red	1.9	2.5	26	20	630	GaAsP	×	
	Transparent red		75			×					
	SEL1810D	Amber	Diffused orange	1.9	2.5	18	10	610	GaAsP	×	
	Transparent orange		37			×					
	SEL1910D	Orange	Diffused orange	1.9	2.5	14	10	587	GaAsP	×	
	Transparent orange		25			×					
	SEL1910A	Yellow	Diffused yellow	2.0	2.5	22	10	570	GaP	×	
	Transparent yellow		65			×					
	SEL1710Y	Green	Diffused green	2.0	2.5	32	20	560	GaP	×	
	Transparent green		84			×					
	SEL1410G	Pure green	Clear	2.0	2.5	50	20	555	GaP	×	
	SEL1510C		20			555				×	
	SEL1210RM	Red	Diffused red	1.9	2.5	36	20	630	GaAsP	×	
	SEL1210SM		Transparent red			75				×	
	SEL1810DM	Amber	Diffused orange	1.9	2.5	18	10	610	GaAsP	×	
	SEL1810AM		Transparent orange			37				×	
	SEL1910DM	Orange	Diffused orange	1.9	2.5	19	10	587	GaAsP	×	
	SEL1910AM		Transparent orange			34				×	
	SEL1710KM	Yellow	Transparent yellow	2.0	2.5	65	10	570	GaP	×	
	SEL1410GM	Green	Diffused green	2.0	2.5	30	20	560	GaP	×	
	SEL1410EM		Transparent green			84				×	
	SEL1510CM	Pure green	Clear	2.0	2.5	50	20	555	GaP	×	
	SEL1210CXM	Ultra-high-intensity red	Clear	2.0	2.5	280	20	635	AlGaInP	×	
SEL1810CXM	Ultra-high-intensity amber	Clear	2.0	2.5	570	20	615	AlGaInP	×		
SEL1D10CXM	Ultra-high-intensity pure green	Clear	3.3	4.0	2000	20	525	InGaIn	×		
SEL1E10CXM	Ultra-high-intensity blue	Clear	3.3	4.0	600	20	470	InGaIn	×		
SEL1250CM	Ultra-high-intensity red	Clear	2.0	2.5	900	20	635	AlGaInP	○		
SEL1250SM	Red	Transparent red	1.9	2.5	75	20	630	GaAsP	○		
SEL1250RM		Diffused red			48				○		
SEL1850AM	Amber	Transparent orange	1.9	2.5	90	20	610	GaAsP	○		
SEL1850DM		Diffused orange			60				○		
SEL1950KM	Orange	Transparent orange	1.9	2.5	96	20	587	GaAsP	○		
SEL1450EKM	Green	Transparent green	2.0	2.5	190	20	560	GaP	○		
SEL1450GM-YG		Diffused green			120				○		
SEL1550CM	Pure green	Clear	2.0	2.5	72	20	555	GaP	×		
SEL1D50CM	Ultra-high-intensity pure green	Clear	3.3	4.0	6000	20	525	InGaIn	×		
SEL1E50CM	Ultra-high-intensity blue	Clear	3.3	4.0	1850	20	470	InGaIn	×		
SEL1615C	High-intensity red	Clear	1.75	2.2	700	20	660	GaAlAs	×		

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _f		Electro-Optical Characteristics (Ta=25°C)				Direct Mount	Fig. No.
				I _f =10mA (V)		Intensity		Peak Wave-length λ _P	Chip Material		
				typ	max	I _v (mcd)	Conditions I _f (mA)	(mm)			
5φ cylindrical type	SEL1111R	Deep red	Diffused red	2.0	2.5	1.4	10	700	GaP	×	6
	SEL1211R	Red	Diffused red	1.9	2.5	12	20	630	GaAsP	×	
	SEL1811D	Amber	Diffused orange	1.9	2.5	8.0	10	610	GaAsP	×	
	SEL1911D	Orange	Diffused orange	1.9	2.5	8.0	10	587	GaAsP	×	
	SEL1711Y	Yellow	Diffused yellow	2.0	2.5	13	10	570	GaP	×	
	SEL1411G	Green	Diffused green	2.0	2.5	30	20	560	GaP	×	
4.6×5.8φ Egg-shaped type	SELU1253CMKT	Ultra-high-intensity red	Clear	2.0	2.5	200	2.0	635	AlGaInP	×	7
	SEL1453CEMKT	Green	Transparent green	2.0	2.5	140	2.0	560	GaP	×	
4φ round type	SEL4110S	Deep red	Transparent red	2.0	2.5	2.4	5	700	GaP	×	8
	Diffused red		1.7			×					
	SEL4210S	Red	Transparent red	1.9	2.5	30	20	630	GaAsP	×	
	Diffused red		17			×					
	SEL4810A	Amber	Transparent orange	1.9	2.5	20	10	610	GaAsP	×	
	Diffused orange		15			×					
	SEL4810D	Orange	Transparent orange	1.9	2.5	26	10	587	GaAsP	×	
	Diffused orange		16			×					
	SEL4910A	Yellow	Transparent yellow	2.0	2.5	36	10	570	GaP	×	
	Diffused yellow		14			×					
	SEL4410E	Green	Transparent green	2.0	2.5	87	20	560	GaP	×	
	Diffused green		34			×					
	SEL4410G	Pure Green	Clear	2.0	2.5	45	20	555	GaP	×	
	SEL4114S		Deep red			Transparent red				2.0	
	SEL4114R	Diffused red		2.8	○						
	SEL4214S	Red	Transparent red	1.9	2.5	40	20	630	GaAsP	○	
	SEL4214R		Diffused red			24				○	
	SEL4814A	Amber	Transparent orange	1.9	2.5	20	10	610	GaAsP	○	
	SEL4814D		Diffused orange			15				○	
	SEL4914A	Orange	Transparent orange	1.9	2.5	26	10	587	GaAsP	○	
SEL4914D	Diffused orange		11			○					
SEL4714K	Yellow	Transparent yellow	2.0	2.5	38	10	570	GaP	○		
SEL4714Y		Diffused yellow			27				○		
SEL4414E	Green	Transparent green	2.0	2.5	69	20	560	GaP	○		
SEL4414G		Diffused green			48				○		
SEL4514C	Pure Green	Clear	2.0	2.5	26	20	555	GaP	○		
3φ round type	SEL6110S	Deep red	Transparent red	2.0	2.5	3.9	10	700	GaP	○	10
	Diffused red		2.6			○					
	SEL6210S	Red	Transparent red	1.9	2.5	41	20	630	GaAsP	○	
	Diffused red		18			○					
	SEL6810A	Amber	Transparent orange	1.9	2.5	22	10	610	GaAsP	○	
	Diffused orange		9.6			○					
	SEL6910A	Orange	Transparent orange	1.9	2.5	22	10	587	GaAsP	○	
	Diffused orange		11			○					
	SEL6710K	Yellow	Transparent yellow	2.0	2.5	37	10	570	GaP	○	
	Diffused yellow		11			○					
	SEL6410E	Green	Transparent green	2.0	2.5	90	20	560	GaP	○	
	Diffused green		30			○					
SEL6510C	Pure Green	Clear	2.0	2.5	42	20	555	GaP	○		
SEL6510G		Diffused green			9.6				○		

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (Ta=25°C)				Direct Mount	Fig. No.	
						Intensity		PeakWave-length λ _P (nm)	Chip Material			
				I _F =10mA (V)	I _V (mcd)	Conditions I _F (mA)						
				typ	max	typ	(mA)	typ				
3φ round type	SEL6214S	Red	Transparent red	1.9	2.5	18	20	630	GaAsP	○	11	17
	SEL6814A	Amber	Transparent orange	1.9	2.5	9.0	10	610	GaAsP	○		
	SELS6B14C	Ultra-high-intensity light amber	Clear	2.0	2.5	120	20	600	AlGaInP	○		
	SEL6914A	Orange	Transparent orange	1.9	2.5	8.0	10	587	GaAsP	○		
	SEL6914W		Diffused white			5.0				○		
	SEL6714K	Yellow	Transparent yellow	2.0	2.5	66	20	570	GaP	○		
	SEL6714W		Diffused white			30				○		
	SEL6414E	Green	Transparent green	2.0	2.5	42	20	560	GaP	○		
	SEL6414E-TG	Deep green	Transparent green			18		558		○		
	SEL6514C	Pure green	Clear	2.0	2.5	12	20	555	GaP	○		
	SEL6215S	Red	Transparent red	1.9	2.5	45	20	630	GaAsP	○		
	SEL6915A	Orange	Transparent orange	1.9	2.5	60	20	587	GaAsP	○		
	SEL6715C	Yellow	Clear	2.0	2.5	90	20	570	GaP	○		
	SEL6415E	Green	Transparent green	2.0	2.5	81	20	560	GaP	○		
	SEL6515C	Pure green	Clear	2.0	2.5	44	20	555	GaP	○		
	SEL2110S	Deep red	Transparent red	2.0	2.5	4	10	700	GaP	×		
	SEL2110R		Diffused red			1.8				×		
	SEL2110W		Diffused white			1.8				×		
	SEL2610C	High-intensity red	Clear	1.75	2.2	350	20	660	GaAlAs	×		
	SEL2210S	Red	Transparent red	1.9	2.5	40	20	630	GaAsP	×		
	SEL2210R		Diffused red			15				×		
	SEL2210W		Diffused white			15				×		
	SEL2810A	Amber	Transparent orange	1.9	2.5	22	10	610	GaAsP	×		
	SEL2810D		Diffused orange			9.0				×		
	SEL2910A	Orange	Transparent orange	1.9	2.5	16	10	587	GaAsP	×		
	SEL2910D		Diffused orange			8.0				×		
	SELU2710C	Ultra-high-intensity yellow	Clear	2.0	2.5	270	20	572	AlGaInP	×		
	SEL2710K	Yellow	Transparent yellow	2.0	2.5	40	10	570	GaP	×		
	SEL2710Y		Diffused yellow			14				×		
	SEL2410E	Green	Transparent green	2.0	2.5	77	20	560	GaP	×		
	SEL2410G		Diffused green			20				×		
	SEL2510C	Pure green	Clear	2.0	2.5	43	20	555	GaP	×		
	SEL2510G		Diffused green			8.2				×		
	SELU2D10C	Ultra-high-intensity pure green	Clear	3.3	4.0	1200	20	525	InGaIn	×		
	SEL2E10C	Ultra-high-intensity blue	Clear	3.3	4.0	400	20	470	InGaIn	×		
	SEL2E10C	Blue	Clear	3.8	4.8	60	20	430	GaN	×		
	SEL2215S	Red	Transparent red	1.9	2.5	45	20	630	GaAsP	×		
	SEL2215R		Diffused red			38				×		
	SEL2815A	Amber	Transparent orange	1.9	2.5	80	10	610	GaAsP	×		
	SEL2815D		Diffused orange			60				×		
	SEL2915A	Orange	Transparent orange	1.9	2.5	81	10	587	GaAsP	×		
	SEL2915D		Diffused orange			53				×		
	SEL2715K	Yellow	Transparent yellow	2.0	2.5	130	10	570	GaP	×		
	SEL2715Y		Diffused yellow			110				×		
	SEL2415E	Green	Transparent green	2.0	2.5	110	20	560	GaP	×		
	SEL2415G		Diffused green			72				×		
	SEL2515C	Pure green	Clear	2.0	2.5	52	20	555	GaP	×		
3φ cylindrical type	SEL2111R	Deep red	Diffused red	2.0	2.5	0.7	10	700	GaP	×		
	SEL2911D	Orange	Diffused orange	1.9	2.5	3.3	10	587	GaAsP	×		
	SEL2411G	Green	Diffused green	2.0	2.5	18	20	560	GaP	×		
2φ round type	SEL4117R	Deep red	Diffused red	2.0	2.5	1.1	10	700	GaP	×		
	SEL4817D	Amber	Diffused orange	1.9	2.5	7.5	10	610	GaAsP	×		
	SEL4917D	Orange	Diffused orange	1.9	2.5	7.5	10	587	GaAsP	×		
	SEL4717Y	Yellow	Diffused yellow	2.0	2.5	14	20	570	GaP	×		
	SEL4417G	Green	Diffused green	2.0	2.5	16	20	560	GaP	×		

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (Ta=25°C)				Direct Mount	Fig. No.	
						Intensity		PeakWave-length λ _P (nm)	Chip Material			
				I _F =10mA (V)	I _V (mcd)	Conditions I _F (mA)						
				typ	max	typ	(mA)	typ				
Inverted-cone type for surface illumination	SEL1213C	Red	Transparent red	1.9	2.5	7.0	20	630	GaAsP	×	17	
	SEL1813A	Amber	Transparent orange	1.9	2.5	8.0	20	610	GaAsP	×		
	SEL1913K	Orange	Transparent light orange	1.9	2.5	8.0	20	587	GaAsP	×		
	SEL1713K	Yellow	Transparent orange yellow	2.0	2.5	15	20	570	GaP	×		
	SEL1413E	Green	Transparent green	2.0	2.5	12	20	560	GaP	×		
	SEL1513E	Pure green	Transparent light green	2.0	2.5	5.0	20	555	GaP	×		
	SEL6413E	Green	Transparent green	2.0	2.5	14	20	560	GaP	○		
	SEL6513C	Pure green	Clear	2.0	2.5	5.0	20	555	GaP	○		
	SEL2613CS-S	High-intensity red	Transparent light red	1.7	2.5	80	20	660	GaAlAs	×		
	SEL2213C	Red	Clear	1.9	2.5	7.0	20	630	GaAsP	×		
	SEL2813A	Amber	Transparent orange	1.9	2.5	8.0	20	610	GaAsP	×		
	SEL2913K	Orange	Transparent light orange	1.9	2.5	8.0	20	587	GaAsP	×		
	SEL2713K	Yellow	Transparent yellow	2.0	2.5	17	20	570	GaP	×		
	SEL2413E	Green	Transparent green	2.0	2.5	14	20	560	GaP	×		
	SEL2413G		Diffused green			12				×		
	SEL2513E	Pure green	Transparent green	2.0	2.5	5.0	20	555	GaP	×		
	3×5 rectangular type	SEL1121R	Deep red	Diffused red	2.0	2.5	0.9	10	700	GaP	×	20
		SEL1821D	Amber	Diffused orange	1.9	2.5	3.0	10	610	GaAsP	×	
		SEL1921D	Orange	Diffused orange	1.9	2.5	3.8	10	587	GaAsP	×	
		SEL1721Y	Yellow	Diffused yellow	2.0	2.5	7.0	10	570	GaP	×	
		SEL1421G	Green	Diffused green	2.0	2.5	12	20	560	GaP	×	
		SEL1222R	Red	Diffused red	1.9	2.5	9.0	20	630	GaAsP	×	
		SEL1822D	Amber	Diffused orange	1.9	2.5	4.8	10	610	GaAsP	×	
		SEL1922D	Orange	Diffused orange	1.9	2.5	4.5	10	587	GaAsP	×	
SEL1722Y		Yellow	Diffused yellow	2.0	2.5	7.8	10	570	GaP	×		
SEL1722K			Transparent yellow			12				×		
SEL1422G		Green	Diffused green	2.0	2.5	7.2	20	560	GaP	×		
2×5 rectangular type		SEL1120R	Deep red	Diffused red	2.0	2.5	0.9	10	700	GaP	×	22
	SEL1220R	Red	Diffused red	1.9	2.5	4.8	20	630	GaAsP	×		
	SEL1820D	Amber	Diffused orange	1.9	2.5	3.0	10	610	GaAsP	×		
	SEL1920D	Orange	Diffused orange	1.9	2.5	3.8	10	587	GaAsP	×		
	SEL1720Y	Yellow	Diffused yellow	2.0	2.5	7.0	10	570	GaP	×		
	SEL1420G	Green	Diffused green	2.0	2.5	11	20	560	GaP	×		
	SEL1124R	Deep red	Diffused red	2.0	2.5	0.5	10	700	GaP	×		
1×5 rectangular type	SEL1824D	Amber	Diffused orange	1.9	2.5	4.0	10	610	GaAsP	×	23	
	SEL1924D	Orange	Diffused orange	1.9	2.5	3.0	10	587	GaAsP	×		
	SEL1724Y	Yellow	Diffused yellow	2.0	2.5	6.0	10	570	GaP	×		
	SEL1424G	Green	Diffused green	2.0	2.5	15	20	560	GaP	×		
	SEL4225C	Red	Clear	1.9	.5	12	20	630	GaAsP	×		
	SEL4225R		Diffused red			5.4				×		
	SEL4825A	Amber	Transparent orange	1.9	2.5	5.4	10	610	GaAsP	×		
	SEL4825D		Diffused orange			4.0				×		
	SEL4925A	Orange	Transparent orange	1.9	2.5	4.5	10	587	GaAsP	×		
	SEL4925D		Diffused orange			4.0				×		
	SEL4725K	Yellow	Transparent yellow	2.0	2.5	13	10	570	GaP	×		
	SEL4725Y		Diffused yellow			5.0				×		
SEL4425E	Green	Transparent green	2.0	2.5	20	20	560	GaP	×			
SEL4425G		Diffused green			10				×			
2×4 rectangular type	SEL4525C	Pure green	Clear	2.0	2.5	6.6	20	555	GaP	×	25	
	SEL4226C	Red	Clear	1.9	2.5	12	20	630	GaAsP	○		
	SEL4226R		Diffused red			10				○		
	SEL4826A	Amber	Transparent orange	1.9	2.5	5.4	10	610	GaAsP	○		
	SEL4826D		Diffused orange			4.5				○		
	SEL4926A	Orange	Transparent orange	1.9	2.5	6.0	10	587	GaAsP	○		
	SEL4926D		Diffused orange			4.5				○		
	SEL4726K	Yellow	Transparent yellow	2.0	2.5	14	10	570	GaP	○		
	SEL4726Y		Diffused yellow			8.6				○		
	SEL4426E	Green	Transparent green	2.0	2.5	20	20	560	GaP	○		
	SEL4426G		Diffused green			14				○		

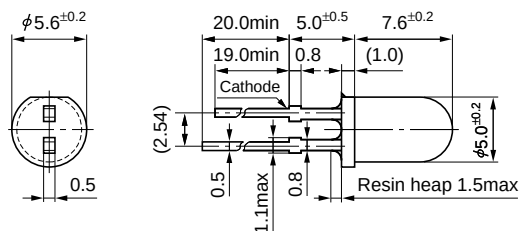
Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V_F $I_F=10\text{mA}$ (V)		Electro-Optical Characteristics (Ta=25°C)				Direct Mount	Fig. No.
						Intensity	Peak Wave-length λ_P (nm)	Chip Material			
									I_V (mcd)		
								typ	max		
4φ bow-shaped type	SEL4227C	Red	Clear	1.9	2.5	15	20	630	GaAsP	×	26
	SEL4427EP	Green	Transparent green	2.0	2.5	19	20	560	GaP	×	
	SEL6227S	Red	Transparent red	1.9	2.5	14	20	630	GaAsP	○	27
	SEL6927A	Orange	Transparent orange	1.9	2.5	10	10	587	GaAsP	○	
	SEL6427EP	Green	Transparent green	2.0	2.5	26	20	560	GaP	○	
3.1φ bow-shaped type	SEL4628C-S	High-intensity red	Clear	1.7	2.2	200	20	660	GaAlAs	×	28
	SEL4228C	Red	Clear	1.9	2.5	27	20	630	GaAsP	×	
	SEL4828A	Amber	Transparent orange	1.9	2.5	14	10	610	GaAsP	×	
	SEL4928A	Orange	Transparent orange	1.9	2.5	14	10	587	GaAsP	×	
	SEL4728K	Yellow	Transparent yellow	2.0	2.5	30	10	570	GaP	×	
	SEL4428E	Green	Transparent green	2.0	2.5	63	20	560	GaP	×	
	SEL4428B-TG	Deep green	Transparent dark navy blue	2.0	2.5	18	20	558	GaP	×	29
	SEL4528C	Pure green	Clear	2.0	2.5	30	20	555	GaP	×	
	SEL4229R	Red	Diffused red	1.9	2.5	21	20	630	GaAsP	○	
	SEL4829A	Amber	Transparent orange	1.9	2.5	18	10	610	GaAsP	○	
	SEL4929A	Orange	Transparent orange	1.9	2.5	18	10	587	GaAsP	○	
	SEL4729KH	Yellow	Transparent yellow	2.0	2.5	60	10	570	GaP	○	
5mm pitch lead rectangular type	SEL4429E	Green	Transparent green	2.0	2.5	60	20	560	GaP	○	30
	SEL5620C	High-intensity red	Clear	1.7	2.2	100	20	660	GaAlAs	○	
	SEL5220S	Red	Transparent red	1.9	2.5	20	20	630	GaAsP	○	
	SEL5820A	Amber	Transparent orange	1.9	2.5	12	20	610	GaAsP	○	
	SEL5920A	Orange	Transparent orange	1.9	2.5	12	20	587	GaAsP	○	
	SEL5420E	Green	Transparent green	2.0	2.5	20	20	560	GaP	○	
	SEL5520C	Pure green	Clear	2.0	2.5	6.0	20	555	GaP	○	
SELU5E20C	Ultra-high-intensity blue	Clear	3.3	4.0	60	10	470	InGaP	○	31	
5mm pitch lead 3φ lens type	SEL5221S	Red	Transparent red	1.9	2.5	35	20	630	GaAsP		○
	SEL5821A	Amber	Transparent orange	1.9	2.5	60	20	610	GaAsP		○
	SEL5921A	Orange	Transparent orange	1.9	2.5	60	20	587	GaAsP		○
	SEL5721C	Yellow	Clear	2.0	2.5	90	20	570	GaP		○
	SEL5421E	Green	Transparent green	2.0	2.5	95	20	560	GaP		○
	SEL5521C	Pure green	Clear	2.0	2.5	35	20	555	GaP		○

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (Ta=25°C)				Direct Mount	Fig. No.	
				I _F =10mA (V)	I _V (mcd)	Intensity		PeakWave-	Chip			
						typ	max	Conditions				length λ _P
								I _F (mA)				(mm)
5mm pitch lead bow type	SELS5223C	Ultra-high-intensity red	Clear	2.0	2.5	100	20	635	AlGaInP	○	32	
	SEL5223S	Red	Transparent red	1.9	2.5	25	20	630	GaAsP	○		
	SELS5823C	Ultra-high-intensity amber	Clear	2.0	2.5	130	20	615	AlGaInP	○		
	SELU5823C		Clear			185				○		
	SEL5823A	Amber	Transparent orange	1.9	2.5	35	20	610	GaAsP	○		
	SELS5B23C	Ultra-high-intensity light amber	Clear	2.0	2.5	135	20	600	AlGaInP	○		
	SELS5923C	Ultra-high-intensity orange	Clear	2.0	2.5	145	20	590	AlGaInP	○		
	SEL5923A	Orange	Transparent orange	1.9	2.5	35	20	587	GaAsP	○		
	SELU5723C	Ultra-high-intensity yellow	Clear	2.0	2.5	155	20	572	AlGaInP	○		
	SEL5723C	Yellow	Clear	2.0	2.5	60	20	570	GaP	○		
	SEL5423E	Green	Transparent green	2.0	2.5	40	20	560	GaP	○		
	SEL5523C	Pure green	Clear	2.0	2.5	13	20	555	GaP	○		
	SELU5E23C	Ultra-high-intensity blue	Clear	3.6	4.0	110	10	470	InGaN	○		
	SEL5E23C	Blue	Clear	4.0	4.8	20	20	430	GaN	○		
5mm pitch lead egg-shaped type	SEL5255S	Red	Transparent red	1.9	2.5	35	20	630	GaAsP	○	33	
	SEL5955A	Orange	Transparent orange	1.9	2.5	25	20	587	GaAsP	○		
	SEL5755C	Yellow	Clear	2.0	2.5	140	20	570	GaP	○		

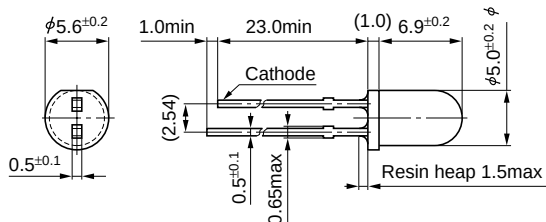
* Anode lead and cathode lead for GaAlAs products are positioned reversely.

(General tolerance: ± 0.3)

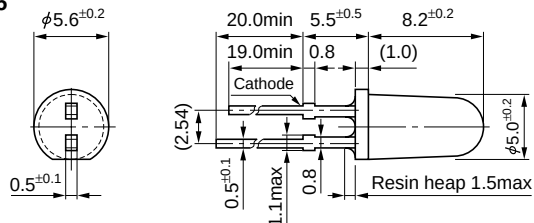
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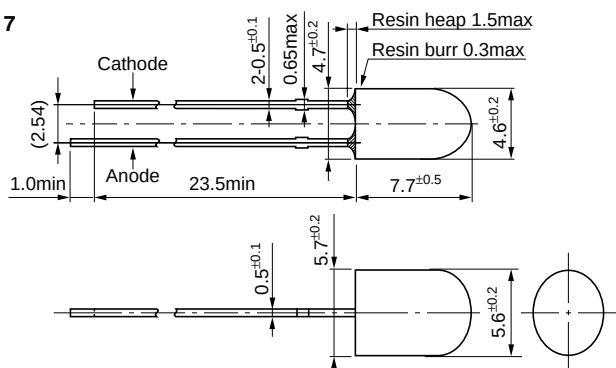
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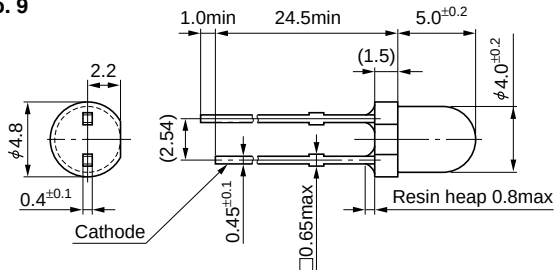
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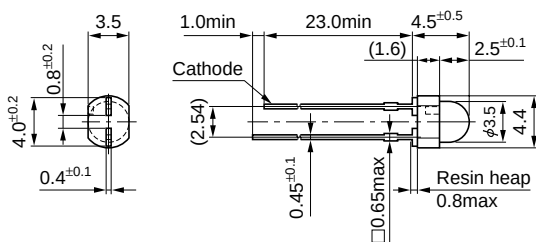
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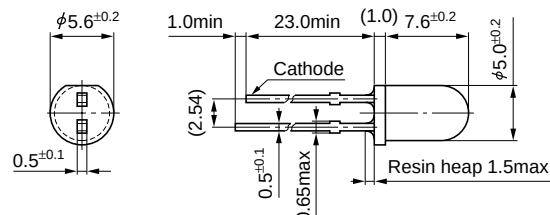
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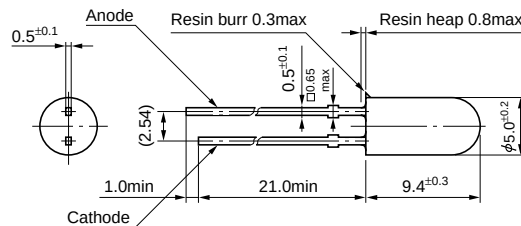
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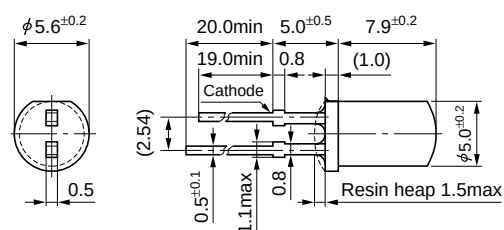
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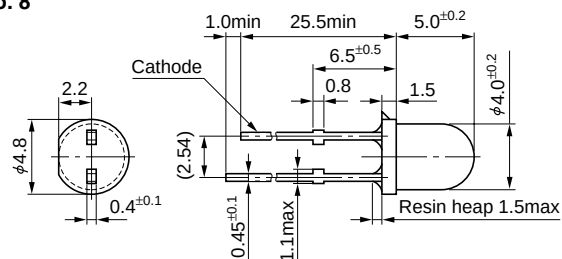
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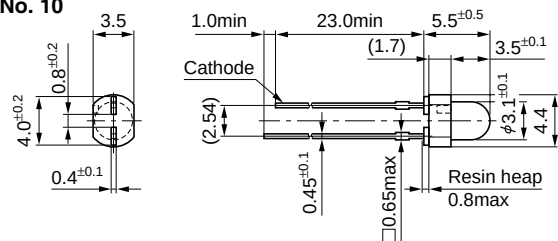
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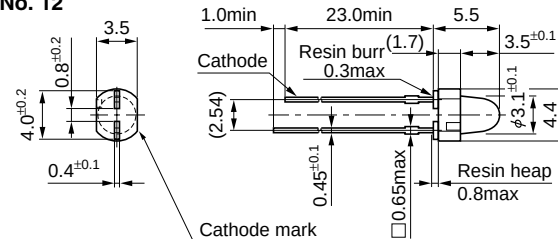
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- **No. 10**



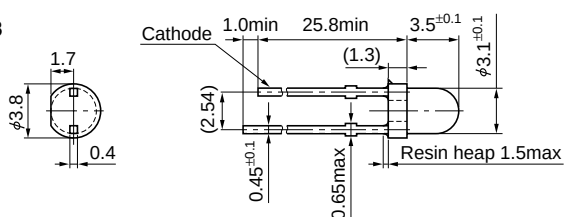
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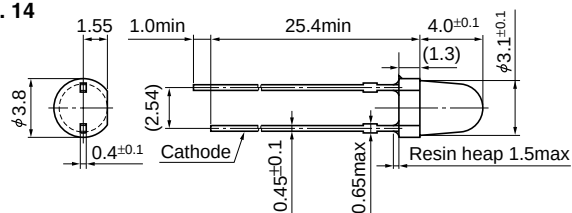
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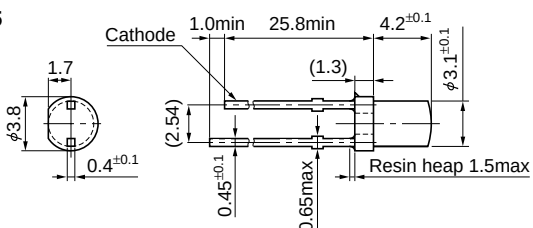
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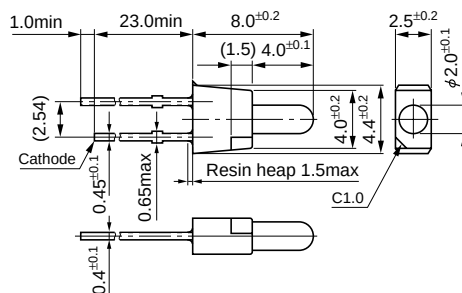
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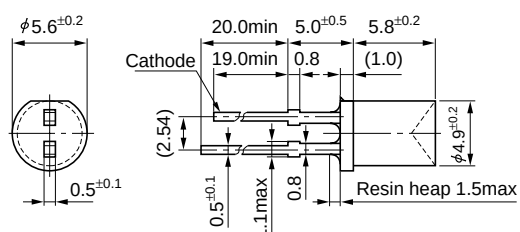
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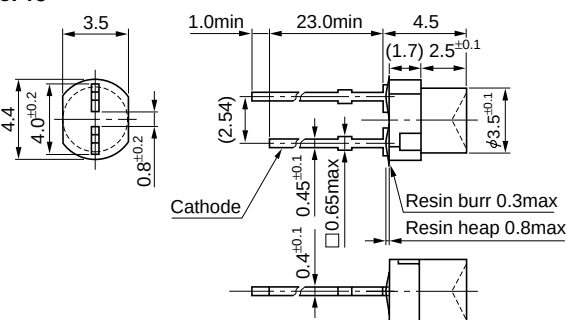
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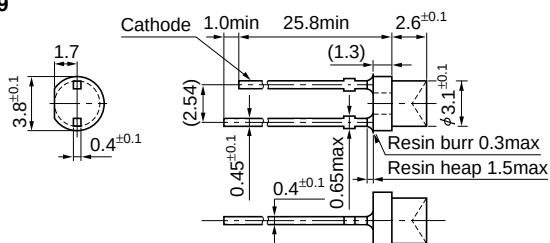
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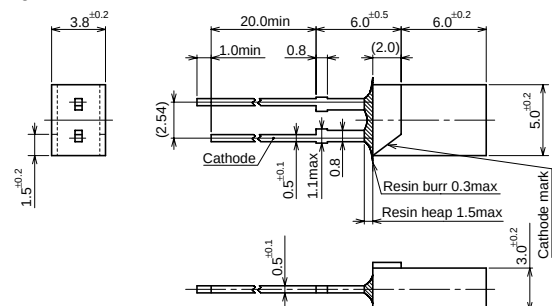
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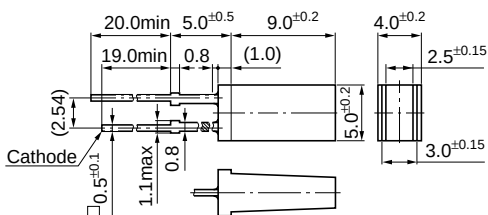
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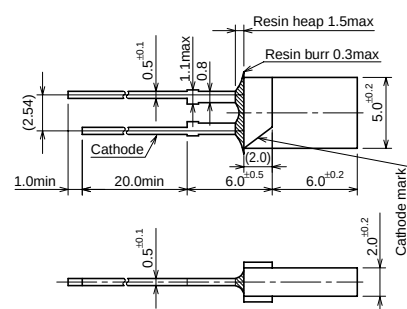
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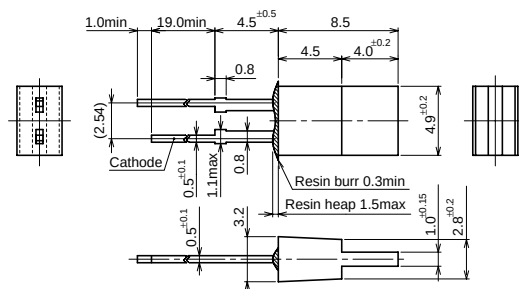
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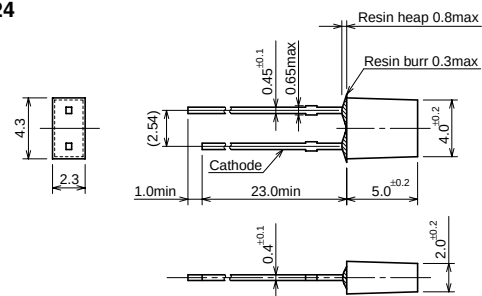
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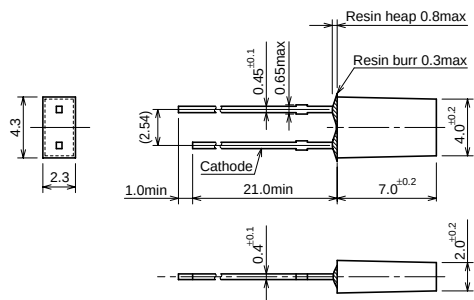
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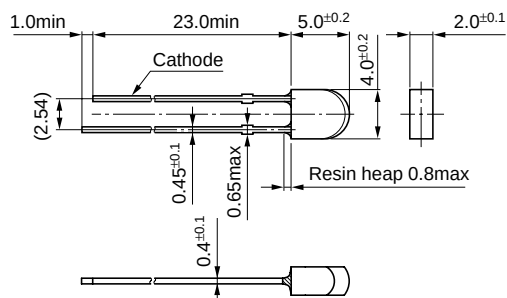
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(General tolerance: ± 0.3)

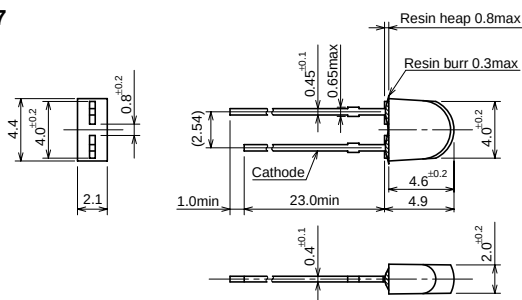
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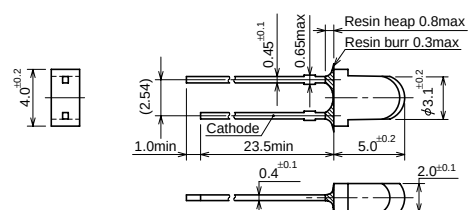
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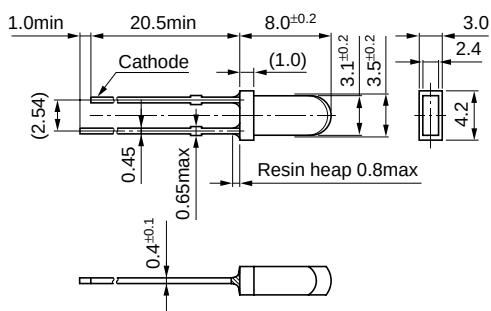
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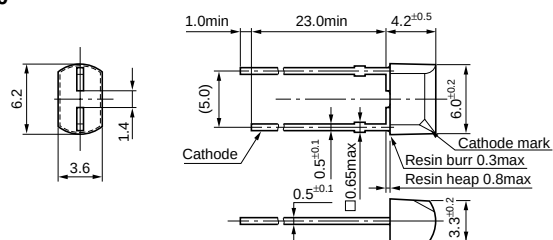
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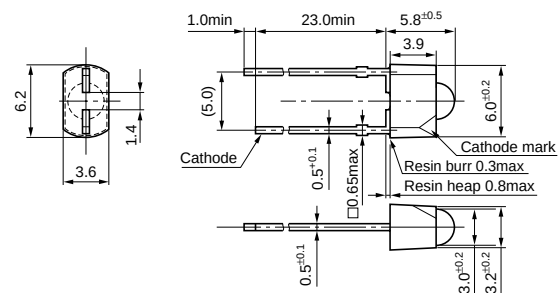
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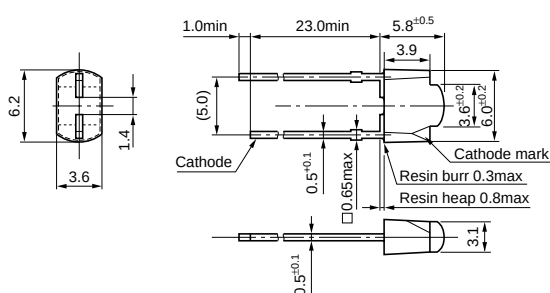
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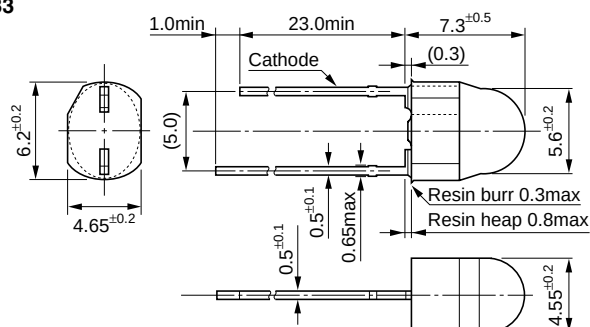
• No. 31



• No. 32



• No. 33



5-1-2 Bicolor Lamps

■ Absolute Maximum Ratings

(Ta=25°C)

Parameter	Unit	Ratings	Conditions
I _F	mA	30	
ΔI _F	mA/°C	-0.45	Above 25°C
I _{FP}	mA	100	f=1kHz, tw≤100μs
V _R	V	4	
Top	°C	-30~+85	
Tstg	°C	-30~+100	

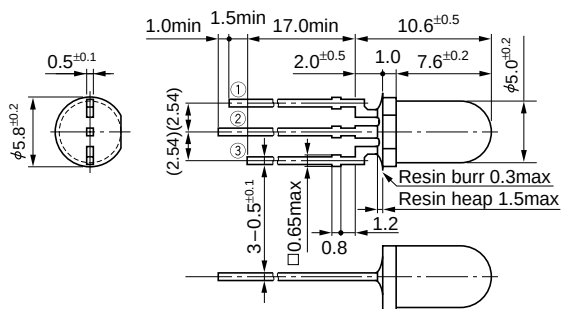
Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F I _F =10mA (V)		Electro-Optical Characteristics (Ta=25 °C)			Common Terminal	Direct Mount	Fig. No.	
				typ	max	I _V (mcd)	Intensity					Peak Wave-length λ _P (nm)
							Conditions					
5φ round type	SML11516C	Deep red	Clear	2.0	2.5	15	20	700	Cathode	×	34	
		Pure green		2.0	2.5	50	20	555				
	SML1216C	Red	Clear	1.9	2.5	65	20	630	Cathode	×		
		Green		2.0	2.5	90	20	560				
	SML1216W	Red	Diffused white	1.9	2.5	60	20	630	Cathode	×		
		Green		2.0	2.5	60	20	560				
	SML1516W	Deep red	Diffused white	2.0	2.5	6.0	20	700	Cathode	×		
		Pure green		2.0	2.5	20	20	555				
	SML16716CN	High-intensity red	Clear	1.7	2.2	100	20	660	Anode	×		
		Yellow		2.4	3.0	140	20	570				
	SML16716WN	High-intensity red	Diffused white	1.7	2.2	50	20	660	Anode	×		
		Yellow		2.4	3.0	70	20	570				
	SML1816W	Amber	Diffused white	1.9	2.5	50	20	610	Cathode	×		
		Green		2.0	2.5	60	20	560				
	SML19416W	Orange	Diffused white	1.9	2.5	45	20	587	Cathode	×		
		Green		2.0	2.5	60	20	560				
	SML12451W	Red	Diffused white	1.9	2.5	40	20	630	Cathode	×		
		Green		2.0	2.5	60	20	560				
SML16751WN		High-intensity red	Diffused white	1.7	2.2	50	20	660	Anode		×	
		Yellow		2.4	3.0	60	20	570				
2.5×5 rectangular type	SML12460C	Red	Clear	1.9	2.5	10	20	630	Cathode	×		
		Green		2.0	2.5	25	20	560				
	SML16760CN	High-intensity red	Clear	1.7	2.2	30	20	660	Anode		×	
		Yellow		2.4	3.0	40	20	570				
	SML19460C	Orange	Clear	1.9	2.5	15	20	587	Cathode		×	
		Green		2.0	2.5	25	20	560				
3.3×6 rectangular type	SML72420C	Red	Clear	1.9	2.5	15	20	630	Cathode	○		
		Green		2.0	2.5	20	20	560				
	SML78420C	Amber	Clear	1.9	2.5	10	20	610	Cathode		○	
		Green		2.0	2.5	20	20	560				
	SML79420C	Orange	Clear	1.9	2.5	10	20	587	Cathode		○	
		Green		2.0	2.5	20	20	560				
3.3×6 bow-shaped type	SML72423C	Red	Clear	1.9	2.5	25	20	630	Cathode	○		
		Green		2.0	2.5	35	20	560				
	SML72923C	Red	Clear	1.9	2.5	25	20	630	Cathode		○	
		Orange		1.9	2.5	25	20	587				
	SML78423C	Amber	Clear	1.9	2.5	25	20	610	Cathode		○	
		Green		2.0	2.5	35	20	560				
	SML79423C	Orange	Clear	1.9	2.5	25	20	587	Cathode		○	
		Green		2.0	2.5	35	20	560				
SMLS79723C	Ultra-high-intensity orange	Clear	2.0	2.5	150	20	590	Cathode	○			
	Yellow		2.0	2.5	40	20	570					

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F I _F =10mA (V)		Intensity I _V (mcd)		Electro-Optical Characteristics (Ta=25°C)	Common Terminal	Direct Mount	Fig. No.
				typ	max	typ	Conditions I _F (mA)	Peak Wave- length λ _P (nm)			
Egg-shaped type	SML72755C	Red	Clear	1.9	2.5	45	20	630	Cathode	○	39
		Yellow		2.0	2.5	75	20	570			
	SML79255C	Orange	Clear	1.9	2.5	40	20	587	Cathode	○	
		Red		2.0	2.5	45	20	630			
	SML79455C	Orange	Clear	1.9	2.5	45	20	587	Cathode	○	
		Green		2.0	2.5	75	20	560			
	SML76755WN	High-intensity red	Diffused white	1.7	2.2	50	20	660	Anode	○	
		Yellow		2.4	3.0	50	20	570			
	SMLU72755C	Ultra-high-intensity red	Clear	2.0	2.5	160	20	635	Cathode	○	
		Ultra-high-intensity yellow		2.0	2.5	170	20	572			
SMLU78755C	Ultra-high-intensity amber	Clear	2.0	2.5	280	20	615	Cathode	○		
	Ultra-high-intensity yellow		2.0	2.5	170	20	572				

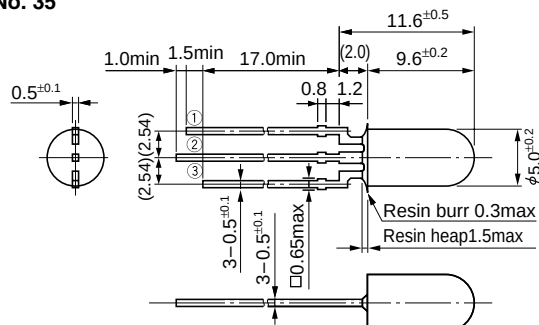
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(General tolerance: ± 0.3)

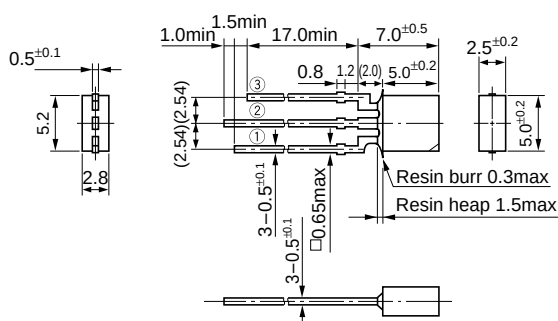
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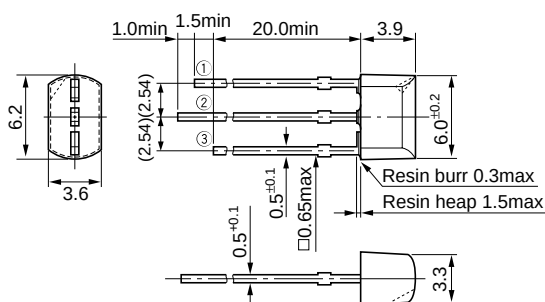
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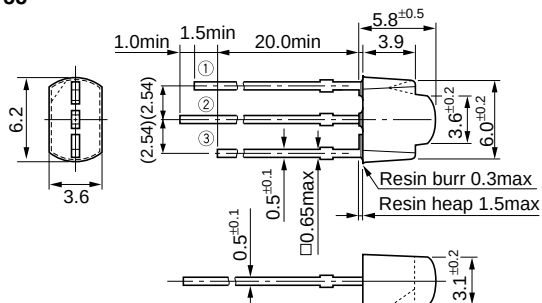
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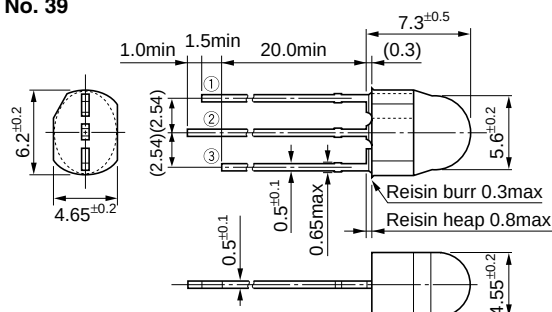
• No. 37



• No. 38



• No. 39



5-2-1 Single-color Surface mount

■ Absolute Maximum Ratings

(Ta=25°C)

Parameter	Unit	Ratings						Conditions
		GaP	GaAsP	GaAlAs	AlGaInP	InGaIn	GaN	
I _F	mA	30						
ΔI _F	mA/°C	-0.45						Above 25° C
I _{FP}	mA	70						f=1kHz, tw≤100μs
V _R	V	4				5		
Top	°C	-30~+85				-25~+85		
Tstg	°C	-30~+100						

Shape	Part No.	Emitting Color	Lens Color	Forward Voltage V _F		Electro-Optical Characteristics (Ta=25°C)				Fig. No.	
				I _F =10mA (V)		Intensity I _V (mcd)		Conditions I _F	Peak Wave-length λ _P (nm)		Chip Material
				typ	max	typ	(mA)	typ			
Flat lens type	SEC1101C	Deep red	Clear	2.0	2.5	1.5	20	700	GaP	40	
	SEC1601C	High-intensity red	Clear	1.7	2.2	100	20	660	GaAlAs		
	SEC1201C	Red	Clear	1.9	2.5	10	20	630	GaAsP		
	SEC1801C	Amber	Clear	1.9	2.5	16	20	610	GaAsP		
	SEC1901C	Orange	Clear	1.9	2.5	13	20	587	GaAsP		
	SEC1701C-YG	Yellow	Clear	2.0	2.5	25	20	570	GaP		
	SEC1401C	Green	Clear	2.0	2.5	22	20	560	GaP		
	SEC1401E-TG	Deep green	Transparent green	2.0	2.5	11	20	558	GaP		
	SEC1501C	Pure green	Clear	2.0	2.5	8.0	20	555	GaP		
	SECU1D01C	Ultra-high-intensity pure green	Clear	3.3	4.0	150	20	525	InGaIn		
	SECU1E01C	Ultra-high-intensity blue	Clear	3.3	4.0	50	20	470	InGaIn		
	SEC1E01C	Blue	Clear	3.9	4.8	6.0	20	430	GaN		
Inner lens type	SEC1603C	High-intensity red	Clear	1.7	2.2	150	20	660	GaAlAs	41	
	SECS1203C	Ultra-high-intensity red	Clear	1.9	2.5	100	20	635	AlGaInP		
	SEC1203C	Red	Clear	1.9	2.5	15	20	630	GaAsP		
	SECS1803C	Ultra-high-intensity amber	Clear	1.9	2.5	10	3	615	AlGaInP		
	SEC1803C	Amber	Clear	1.9	2.5	20	20	610	GaAsP		
	SECS1903C	Ultra-high-intensity orange	Clear	1.9	2.5	10	3	590	AlGaInP		
	SEC1903C	Orange	Clear	1.9	2.5	15	20	587	GaAsP		
	SEC1703C	Yellow	Clear	2.0	2.5	35	20	570	GaP		
	SEC1403C	Green	Clear	2.0	2.5	33	20	560	GaP		
	SEC1403E-TG	Deep green	Transparent green	2.0	2.5	15	20	558	GaP		
	SEC1503C	Pure green	Clear	2.0	2.5	10	20	555	GaP		
Miniature (t=0.55mm)	SECU1E05C	Blue	Clear	3.4	4.0	40	20	468	InGaIn	42	
	SECU1J05C	Blue-green	Clear	3.3	4.0	210	20	500	InGaIn		
	SECU1D05C	Pure green	Clear	3.3	4.0	280	20	525	InGaIn		
	SECU1905C	Orange	Clear	1.9	1.9	80	20	591	AlGaInP		
	SECU1805C	Amber	Clear	1.9	1.9	100	20	611	AlGaInP		
	SECU1205C	Red	Clear	1.9	1.9	90	20	632	AlGaInP		
Miniature (t=0.7mm)	SEC1E07C	Blue	Clear	4.0	4.8	10	20	430	GaN	43	
	SECS1E07C	Blue	Clear	3.6	4.3	30	20	468	InGaIn		
	SECS1L07C	Aqua-blue	Clear	3.6	4.3	90	20	488	InGaIn		
	SECS1D07C	Pure green	Clear	3.6	4.3	140	20	523	InGaIn		
	SECU1407C	Green	Clear	2.2	2.5	15	20	560	AlGaInP		
	SECU1707C	Yellow	Clear	2.2	2.5	30	20	572	AlGaInP		
	SECS1B07C	Light amber	Clear	1.9	2.5	90	20	600	AlGaInP		

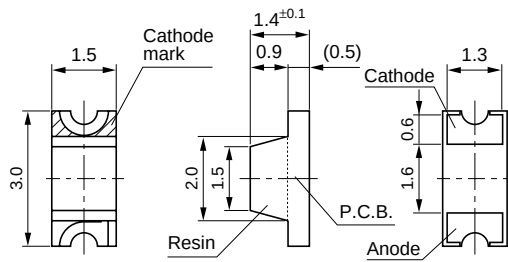
5-2-2 Bicolor Surface mount

Shape	Part No.	Emitting Color	Lens Color	Electro-Optical Characteristics (Ta=25°C)					Fig. No.
				Forward Voltage V _F		Intensity I _v		Peak Wave-length λ _P	
				I _F =10mA (V)		I _v (mcd)		I _F (mA)	
Flat lens type	SEC2422C	Red	Clear	1.9	1.9	2.5	20	630	44
		Green		2.0	2.0	2.5	20	560	
	SEC2442C	Green	Clear	2.0	2.0	2.5	20	560	
		Green		2.0	2.0	2.5	20	560	
	SEC2462C	High-intensity red	Clear	1.7	1.7	2.2	20	660	
		Green		2.0	2.0	2.5	20	560	
	SEC2492C	Orange	Clear	1.9	1.9	2.5	20	587	
		Green		2.0	2.0	2.5	20	560	
	SEC2552C	Pure green	Clear	2.0	2.0	2.5	20	555	
		Pure green		2.0	2.0	2.5	20	555	
	SEC2592C	Orange	Clear	1.9	1.9	2.5	20	587	
		Pure green		2.0	2.0	2.5	20	555	
Inner lens type	SEC2762C-YG	High-intensity red	Clear	1.7	1.7	2.2	20	660	45
		Yellow		2.0	2.0	2.5	20	570	
	SEC2484C	Amber	Clear	1.9	1.9	2.5	20	610	
		Green		2.0	2.0	2.5	20	560	
	SEC2554C	Pure green	Clear	2.0	2.0	2.5	20	555	
		Pure green		2.0	2.0	2.5	20	555	
	SEC2494C	Orange	Clear	1.9	1.9	2.5	20	587	
		Green		2.0	2.0	2.5	20	560	
	SEC2764C	High-intensity red	Clear	1.7	1.7	2.2	20	660	
		Yellow		2.0	2.0	2.5	20	570	
	SEC2774C	Yellow	Clear	2.0	2.0	2.5	20	570	
		Yellow		2.0	2.0	2.5	20	570	

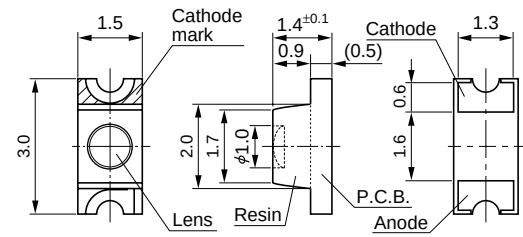
External Dimensions (unit: mm)

(General tolerance: ± 0.3)

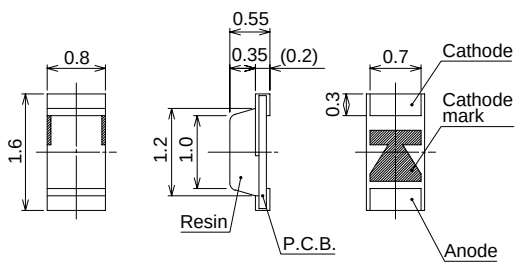
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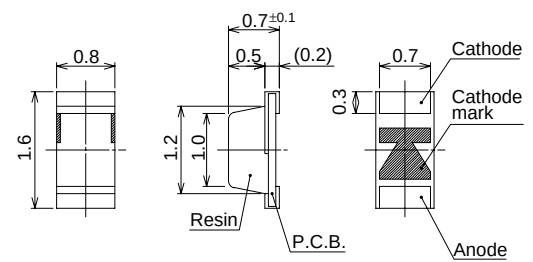
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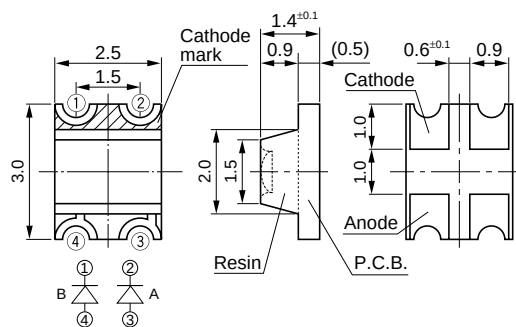
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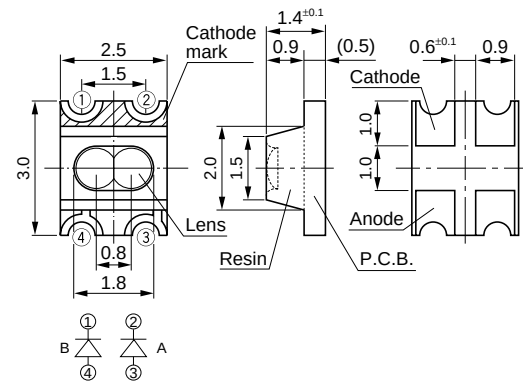
• No. 43



• No. 44



• No. 45



■ Absolute Maximum Ratings

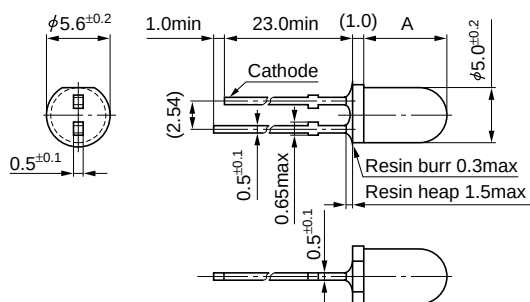
Parameter	Unit	Ratings	Conditions
I_F	mA	100	
ΔI_F	mA/°C	-1.33	Above 25°C
I_{FP}	mA	1000	f=1kHz, tw≤10μs
V_R	V	5	
Top	°C	-30~+85	
Tstg	°C	-30~+100	

Shape	Part No.	Emitting Color	Forward Voltage V_F		Electro-Optical Characteristics (Ta=25°C)			Direct Mount	Fig. No.	
			$I_F=10\text{mA}$ (V)	Optical Power I_e		Peak Wave-length λ_P (mm)	Chip Material			
				typ	max					(mW/sr)
5φ round type	SID1010CM	Clear	1.3	1.5	130	(Constant voltage)	940	GaAs	×	44
	SID1K10CM	Clear	1.3	1.5	200		940	GaAs	×	
	SID1010CXM	Clear	1.3	1.5	60		940	GaAs	×	
	SID1K10CXM	Clear	1.3	1.5	110		940	GaAs	×	
	SID1050CM	Clear	1.3	1.5	250	$V_{CC}=3V$,	940	GaAs	○	45
	SID303C	Clear	1.3	1.5	80	$R=2.2\Omega$	940	GaAs	×	
	SID313BP	Transparent light purple	1.3	1.5	130		940	GaAs	×	46
	SID1003BQ	Transparent light navy blue	1.3	1.5	180		940	GaAs	×	
	SID307BR	Transparent dark navy blue	1.3	1.5	200		940	GaAs	×	
SID1G307C	Clear	1.5	1.8	50	$I_F=50\text{mA}$	850	GaAlAs	×	47	
SID2010C	Clear	1.3	1.5	7.0		940	GaAs	×		
SID2K10C	Clear	1.3	1.5	14		940	GaAs	×		

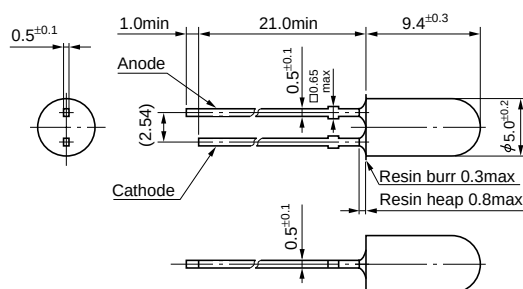
External Dimensions (unit: mm)

(General tolerance: ±0.3)

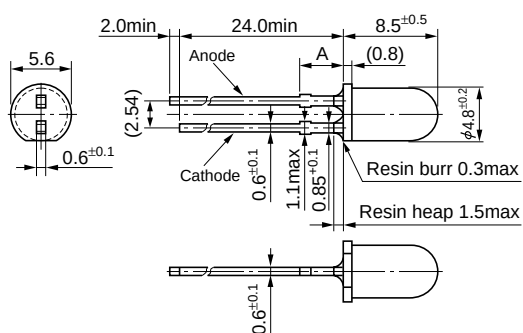
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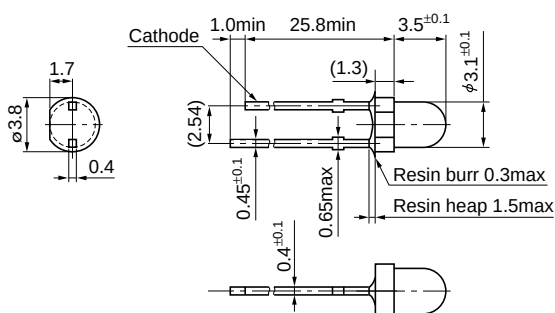
• No. 45



• No. 46



• No. 47



(unit: mm)

Dimension A

SID 303C	3.0±0.5
SID 313BP	3.6±0.5
SID 1003BQ	4.2±0.5
SID 307BR	
SID1G307C	