

Features:

- Single chip
- 2.1 x 1.25 x 0.8mm (0805) standard package
- Suitable for all SMT assembly methods
- Compatible with infrared and vapour phase reflow solder process
- RoHS compliant
- Compatible with automatic placement equipment

Applications

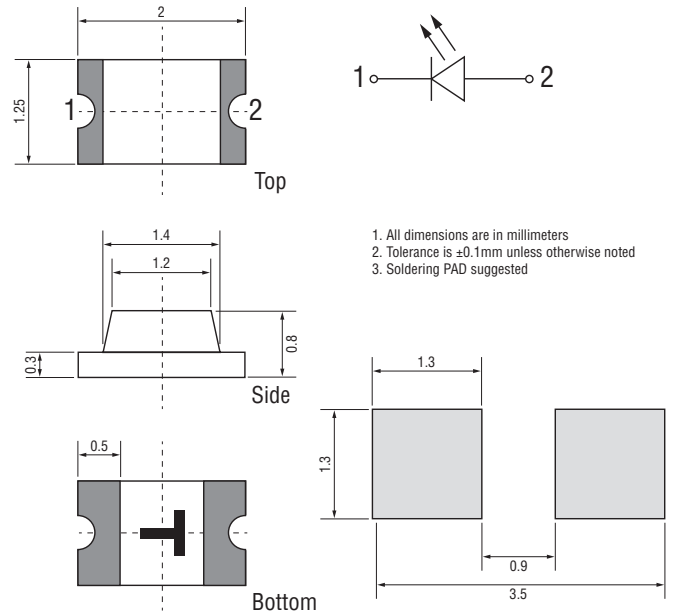
- Automotive: dashboards, stop lamps, turn signals
- Backlighting: LCDs, Key pads advertising

Absolute maximum rating (Ta=25°C)

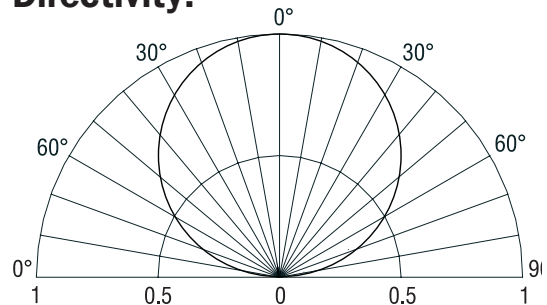
Item	Symbol	Value		Unit
		WT/MT/BL/K	HR/YG/YL	
DC forward current	I_F	30	30	mA
Pulse forward current*	I_{FP}	100	100	mA
Reverse voltage	V_R	5	5	V
Power dissipation	P_D	108	78	mW
Operating temperature	T_{opr}	-40 to +85		°C
Storage temperature	T_{stg}	-40 to +85		°C
Lead soldering temperature	T_{sol}	260°C/5sec		-

*Pulse width max. 0.1ms. Duty ratio max. 1/10

Outline dimensions:



Directivity:



Electrical – Optical characteristics (Ta=25°C)

Order code	MPN	Colour		V_F (V)			I_R (μ A)	I_V (mcd)			λ_D (nm)			$2\theta_{1/2(\delta E_Y)}$
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				$I_F = 20\text{mA}$			$V_R = 5$	$I_F = 20\text{mA}$						
56-3144	OSW50805C1E	White	W5	-	3.3	3.6	10	350	450	-	X: 0.29, Y: 0.29	120		
56-3145	OSM50805C1E	Warm white	M5	-	3.3	3.6	10	350	450	-	X: 0.44, Y: 0.41	120		
56-3143	OSB50805C1E	Blue	B5	-	3.2	3.6	10	42	80	-	460 465 475	120		
56-3142	OSG50805C1E	Pure Green	G5	-	3.3	3.6	10	400	450	-	520 525 530	120		
56-3140	OSG80805C1E	Yellow Green	G8	-	2.0	2.6	10	20	35	-	564 570 578	120		
56-3139	OSY50805C1E	Yellow	Y5	-	2.1	2.6	10	100	120	-	585 590 595	120		
56-3141	OSO50805C1E	Orange	O5	-	2.0	2.6	10	100	120	-	600 605 610	120		
56-3138	OSR50805C1E	Red	R5	-	2.0	2.6	10	120	150	-	620 625 630	120		

V_F tolerance: ±0.5V Dominant wavelength tolerance: ±1nm Luminous intensity tolerance: ±10%

Optical and electrical characteristics

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES

