0603 SMD Single Chip Super High Brightness LEDs

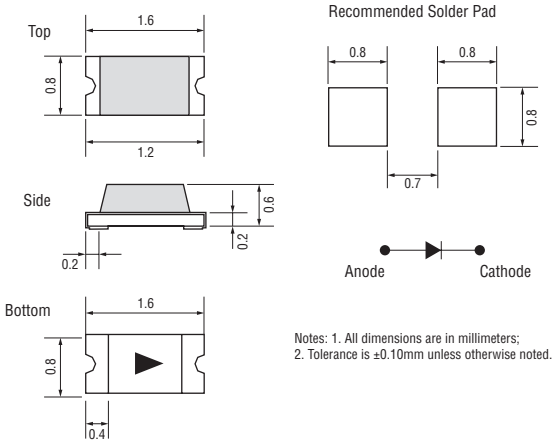
Features:

- Single chip
- Super high brightness of surface mount LED
- Sorting for Iv and Vf @ 5mA of If
- Compact package outline
  (L x W x T) of 1.6mm x 0.8mm x 0.6mm
- Compatible to IR reflow soldering

Applications

- Backlighting (switches, keys, etc.)
- Market lights (e.g. steps, exit ways, etc.)

Outline dimensions



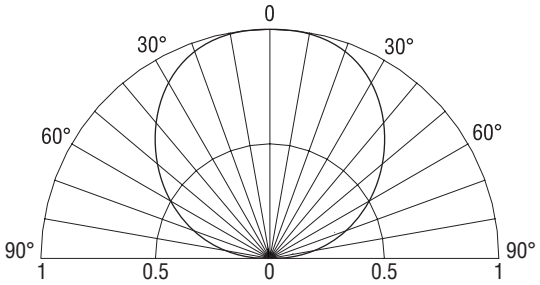
Notes: 1. All dimensions are in millimeters;
2. Tolerance is ±0.10mm unless otherwise noted.

Absolute maximum rating (Ta=25°C)

Item	Symbol	Value		Unit
		WT/BL/TG/YG	YL/OR/HR	
DC forward current	I_F	20	20	mA
Pulse forward current*	I_{FP}	100	100	mA
Reverse voltage	V_R	5	5	V
Power dissipation	P_D	68	48	mW
Operating temperature	Topr	–40 to +85		°C
Storage temperature	Tstg	–40 to +85		°C
Lead soldering temperature	Tsol	260°C/5sec		–

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

Directivity:



Electrical – Optical characteristics (Ta=25°C)

Order code	MPN	Colour		V_F (V)			I_R(μA)	I_V(mcd)			λ_D(nm)			$2\theta_{1/2(deg)}$
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				I_F=5mA			V_R=5V	I_F=5mA						
56-3134	OSM50603C1E	Warm White	M5	2.5	2.8	3.4	100	60	–	160	X=0.44, Y=0.41			120
56-3136	OSW50603C1E	White	W5	2.5	2.8	3.4	100	100	–	200	X=0.27, Y=0.28			120
56-3135	OSB50603C1E	Blue	B5	2.5	2.8	3.4	100	14	–	40	455	470	475	120
56-3137	OSG50603C1E	Pure Green	G5	2.5	2.8	3.4	100	120	–	220	520	525	530	120
56-3132	OSG80603C1E	Yellow Green	G8	1.6	1.8	2.4	100	5	–	15	565	570	575	120
56-3131	OSY50603C1E	Yellow	Y5	1.6	1.8	2.4	100	15	–	50	585	590	595	120
56-3133	OSO50603C1E	Orange	O5	1.6	1.8	2.4	100	15	–	50	600	605	610	120
56-3130	OSR50603C1E	Red	R5	1.6	1.8	2.4	100	15	–	50	617	625	630	120

Notes: Vf tolerance: ±0.05V
Dominant wavelength tolerance: ±1nm
Luminous intensity is NIST reading
Luminous intensity tolerance: ±10%