

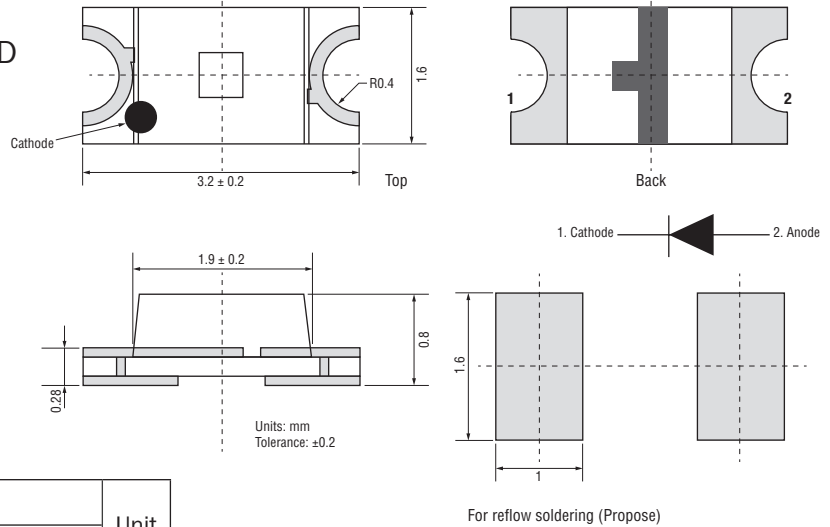
Features:

- Single chip
- Super high brightness of surface mount LED
- Compact package outline (L x W x T) of 3.2mm x 1.6mm x 0.8mm
- Compatible to IR reflow soldering

Applications

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

Outline dimensions:

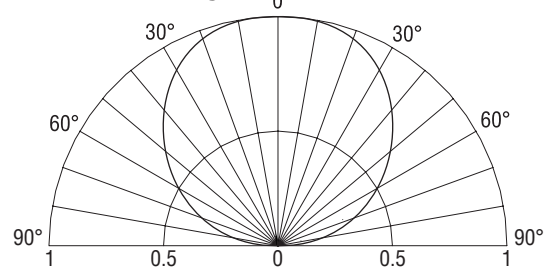


Absolute maximum rating (Ta=25°C)

Item	Symbol	Value		Unit
		WT/MT/BL/TG	YG/YL/OR/HR	
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

Directivity:



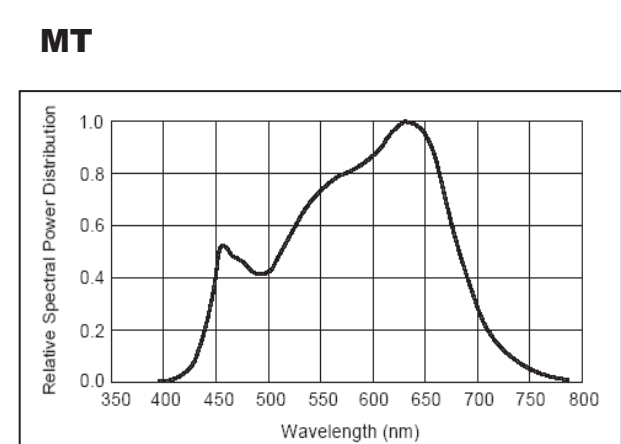
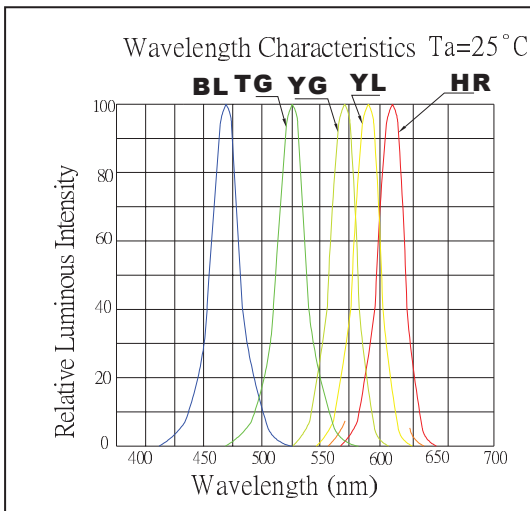
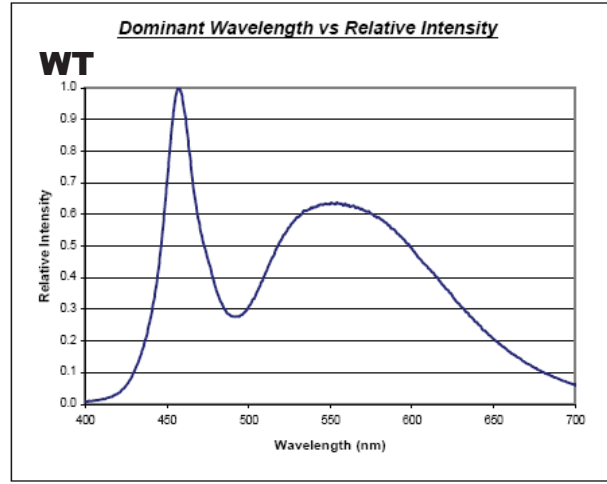
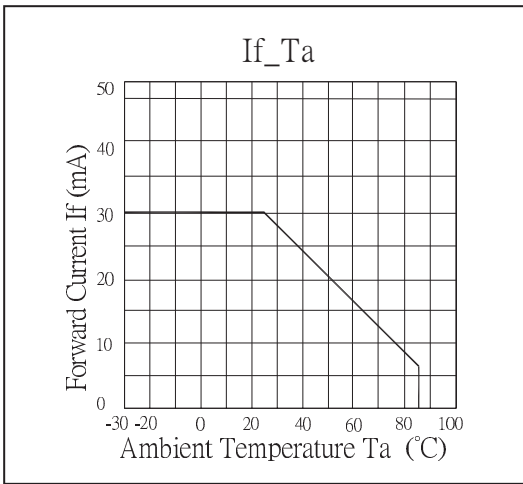
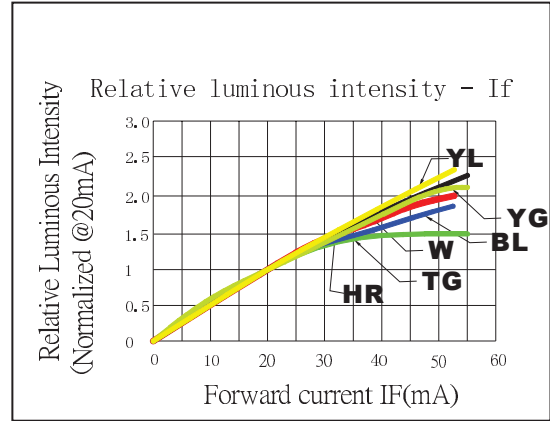
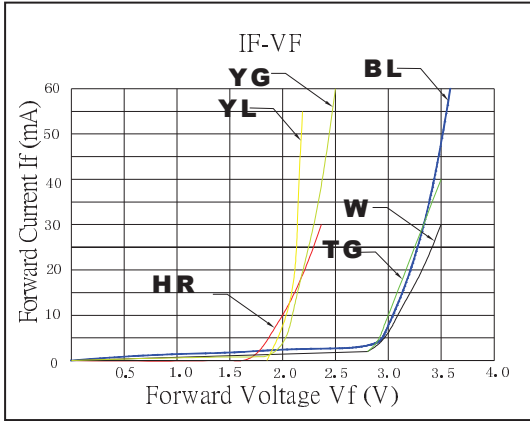
Electrical - Optical characteristics (Ta=25°C)

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.
				$I_F=20\text{mA}$			$V_R=5\text{V}$	$I_F=20\text{mA}$						
56-3119	OSW51206C1E	White	W5	3.0	-	3.6	100	400	450	-	X=0.29, Y=0.29		120	
56-3129	OSB51206C1E	Blue	B5	3.0	-	3.6	100	80	100	-	460	465	475	120
56-3127	OSG81206C1E	Yellow Green	G8	1.8	-	2.6	100	20	45	-	565	570	575	120
56-3125	OSY51206C1E	Yellow	Y5	1.8	-	2.6	100	60	90	-	585	590	595	120
56-3121	OSR51206C1E	Red	R5	1.8	-	2.6	100	100	120	-	620	625	630	120

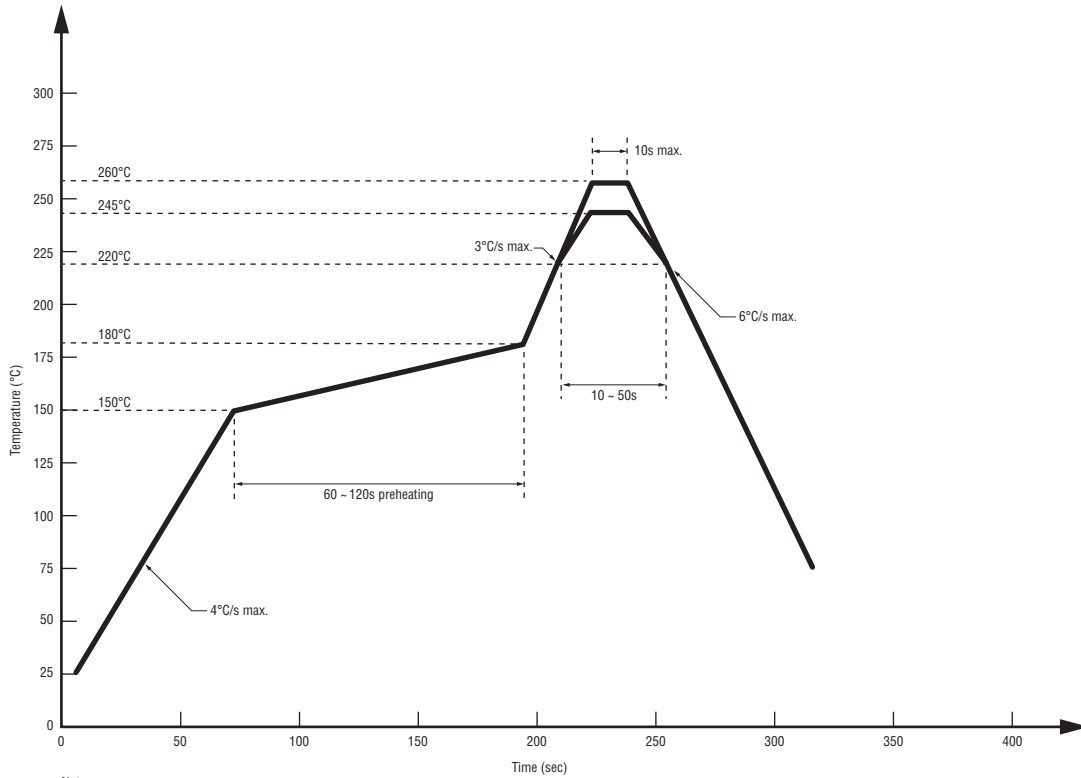
Notes: V_f tolerance: $\pm 0.05\text{V}$
 Dominant wavelength tolerance: $\pm 1\text{nm}$
 Luminous intensity is NIST reading
 Luminous intensity tolerance: $\pm 10\%$

Optical and electrical characteristics

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES



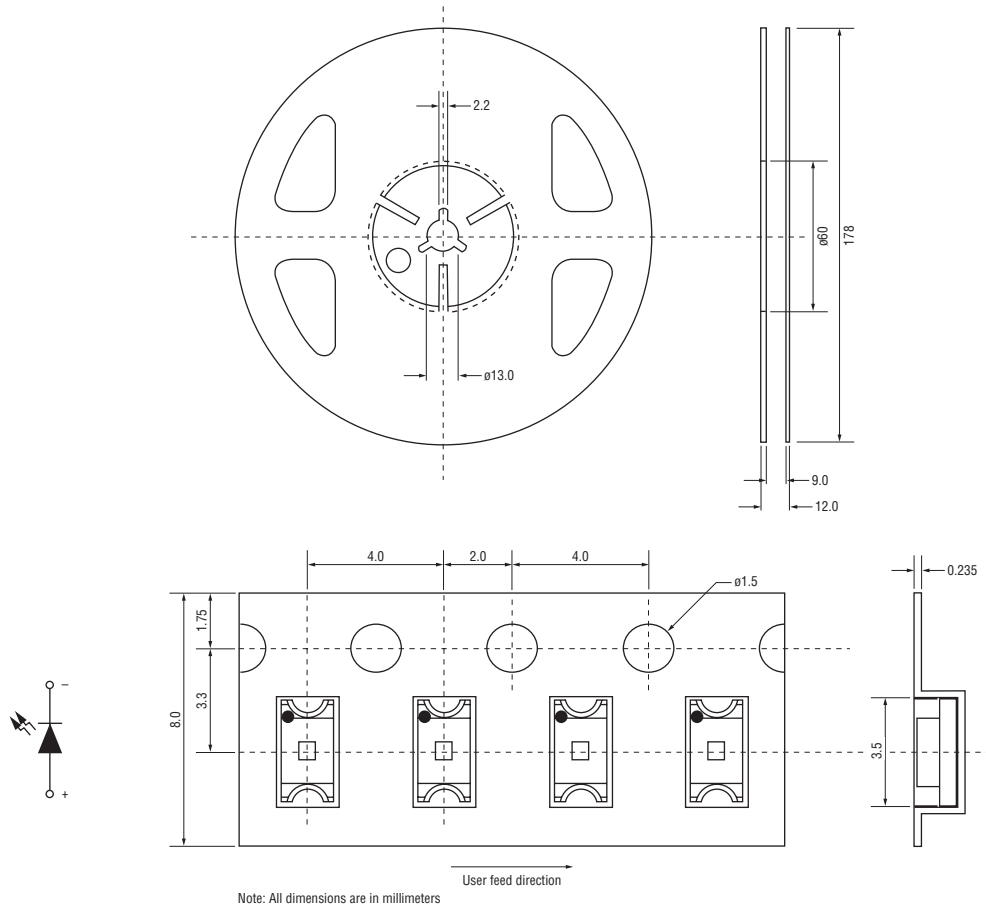
For lead free solder



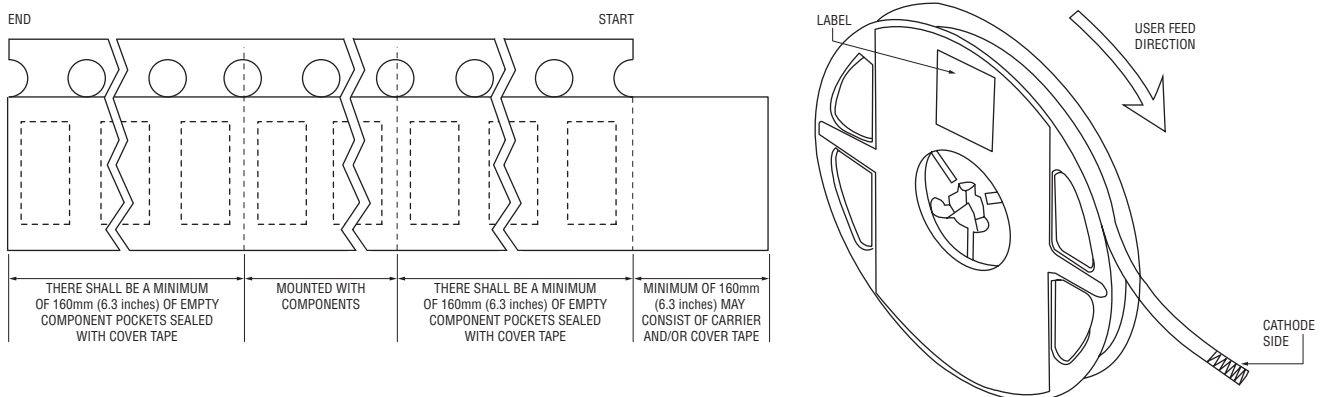
Notes:
We recommend the soldering temperature $245 \pm 5^\circ\text{C}$; the maximum temperature should be limited to 260°C .

Packaging

1. Reel and tape dimensions



2. Tape leader & trailer dimensions and reel



3. Bag packaging

