



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Peak Emission Wavelength: 1020nm



Description

- Size 3.8 (W) x 3.8 (L) x 0.9 (H) SMD 3838 Case
- Circuit substrate: AlN ceramics
- Devices are RoHS conform
- Lead free solderable, soldering pads: silver plated
- Taped in 16 mm blister tape, cathode to transporting perforation
- All devices are sorted into radiant intensity classes
- Taping: face up (T)
- High radiation intensity types

Absolute Maximum Ratings (Ta=25°C)



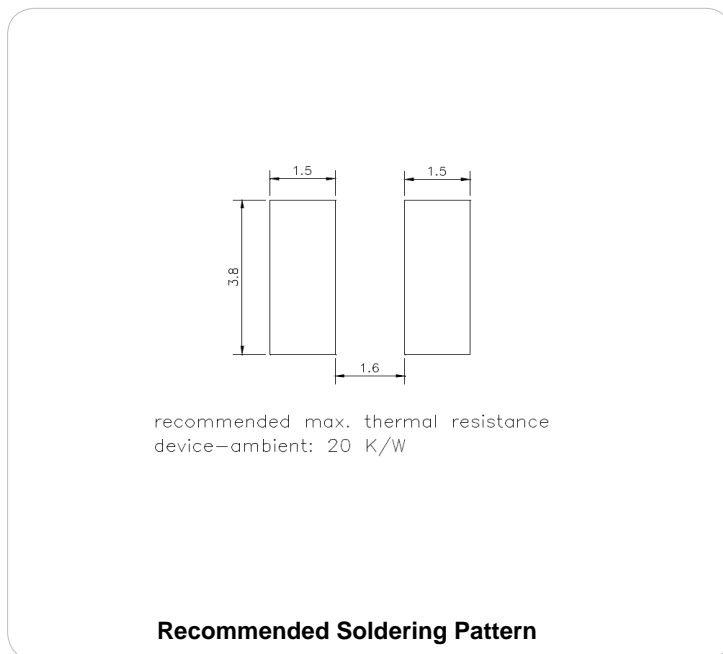
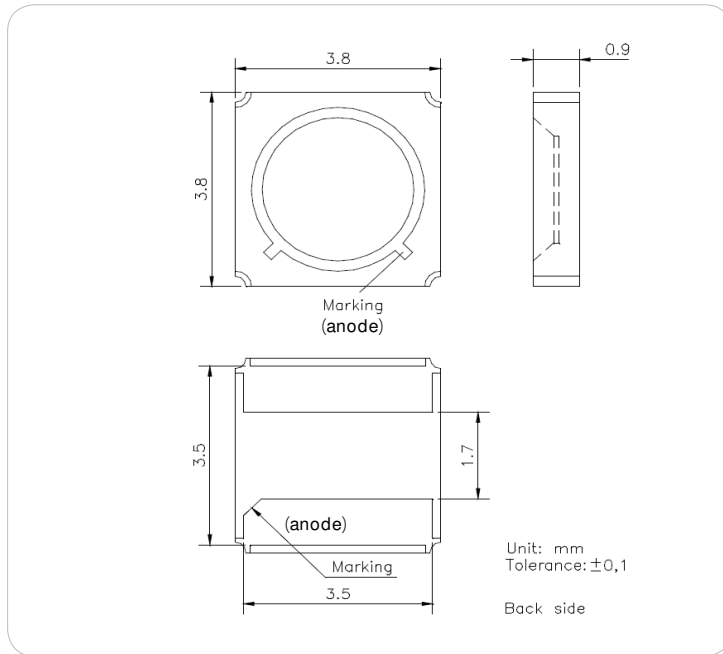
ITEMS	SYMBOL	RATINGS	UNIT
Forward DC Current	If	500	mA
Peak Forward Current *	Ifp	1000	mA
Reverse Voltage	Vr	5	V
Reverse Current	Ir	100	uA
Operating Temperature	Top	-40 to +85	°C
Storage Temperature	Tst	-40 to +85	°C
Thermal Resistance RthJA		10	K/W

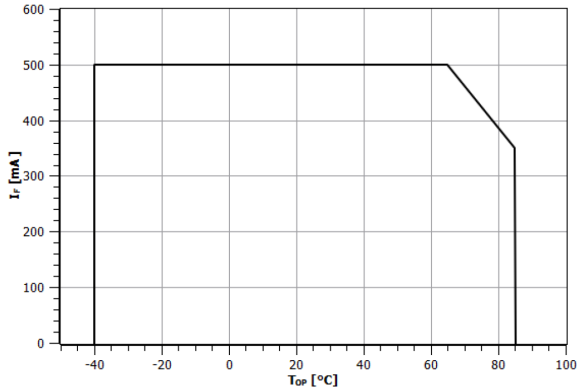
* tp ≤ 100 us, T=1:10

Electrical & Optical Characteristics (Ta = 25°C)

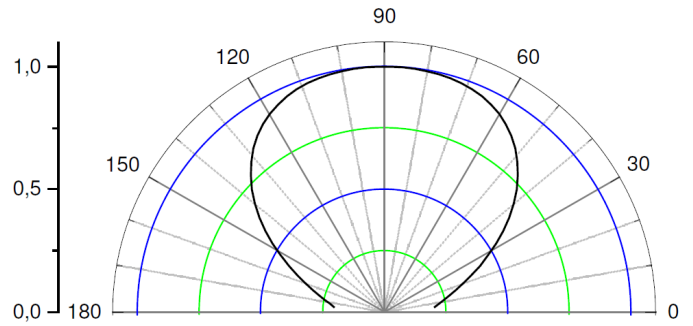
ITEMS	SYMBOL	MIN	TYP	MAX	UNIT
Forward Current	If	--	350	--	mA
Forward Voltage	Vf	--	1.2	1.5	V
Peak Wavelength	λp	1005	1020	1035	nm
Radiant Intensity	Ie	8.5	17	--	mW/sr
Spectral Bandwidth	Δλ	--	40	--	nm

Package Dimensions

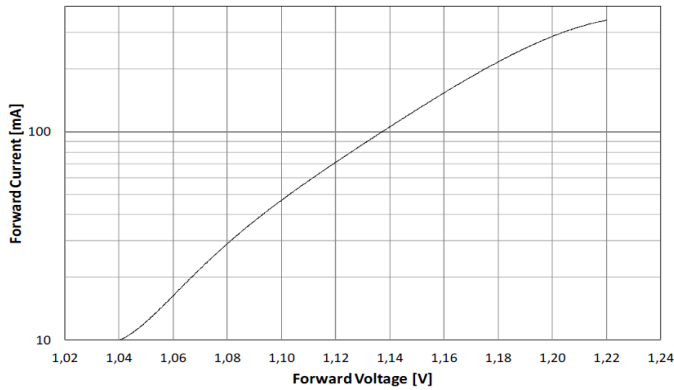




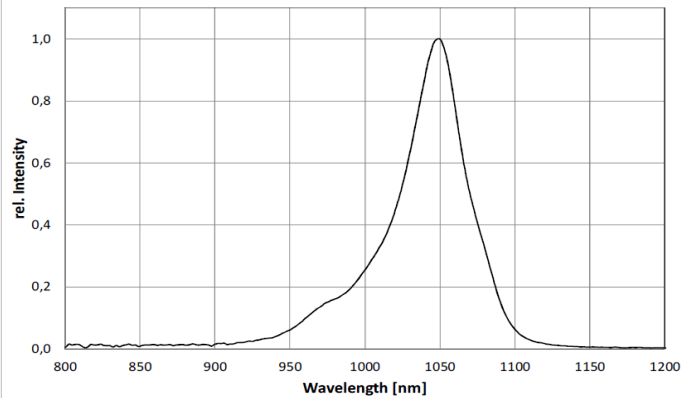
Maximal forward current (DC) characteristic



View angle

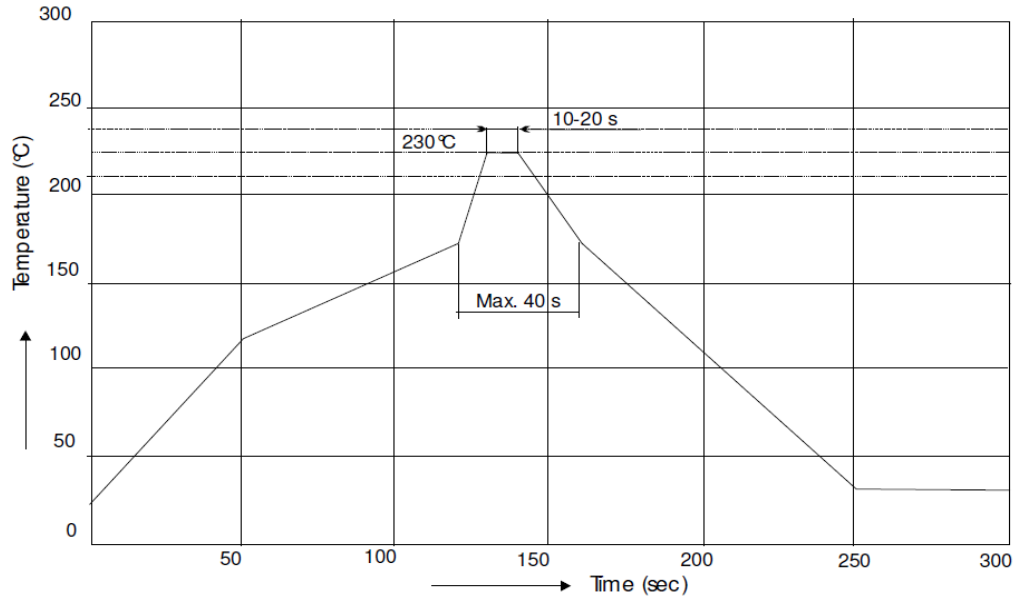


$U_F - I_F$ characteristic

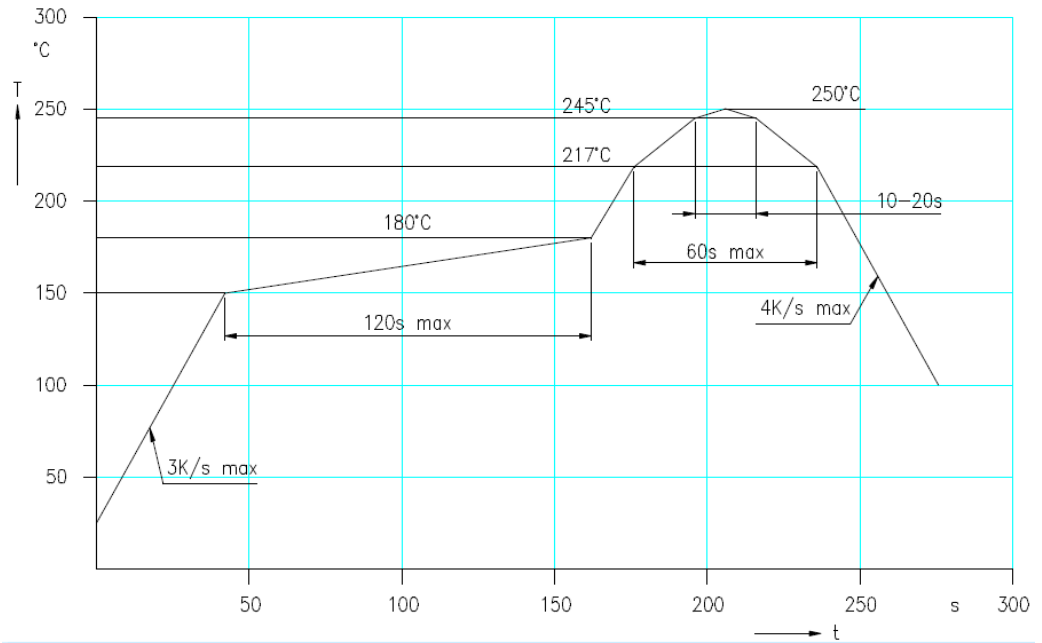


$I_F - I_e, rel$ characteristic

IR reflow soldering profile



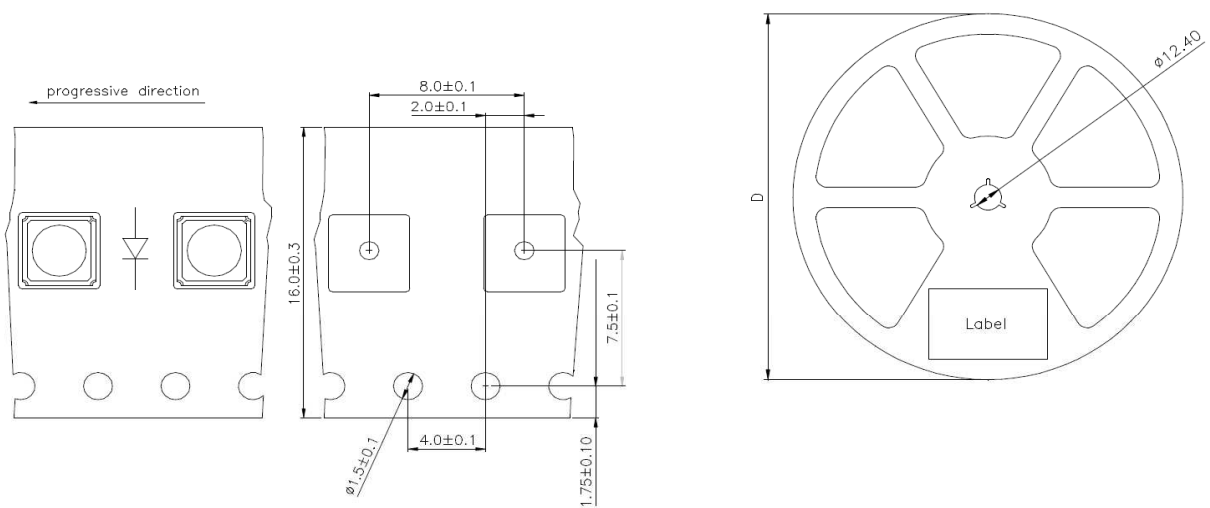
IR reflow soldering profile for lead free soldering



Manual soldering:
max power of iron 25 W / 3 s / 300°C

Measured according to CIE 127. All SMD-LEDs are 100% measured and selected on full automated equipment with an accuracy of $\pm 11\%$.

Tape and Reel packing



Tape and Reel - Suffice to the part number	
Ex:	MTXXXXX-T05 = 500 piece reel
Code	Components per reel
T05	500
T1	1000
T2	2000
T25	2500
T3	3000

Packing: The reel is seaLED in special plastic bag with integrate ESD protection (MIL - STD 81705) including a silica dry-pack