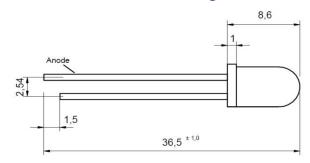
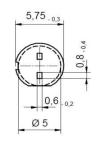


Product No: MTE0013-525-IR

Peak Emission Wavelength: 1300nm





Description

- Standard 5mm plastic lens package housed without standoff leads
- Type: MQW
- High power
- High speed infrared

Application

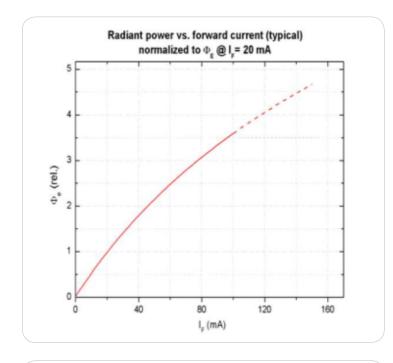
- Optical communication
- Safety equipment
- Automation

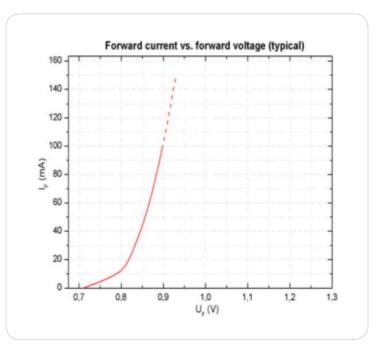
Absolute Maximum Ratings (Ta=25°C)					
ITEMS	TEST CONDITIONS	SYMBOL	RATINGS	UNIT	lead-free ROMS
Forward DC Current		If	100	mA	
Peak Forward Current	$(tp \le 50us, tp/T=1/2)$	Ifp	200	mA	
Power Dissipation		Pd	150	mW	
Operating Temperature Range		Тор	-20 to +80	°C	
Storage Temperature Range		Tstg	-55 to +100	°C	
Lead Soldering Temperature	t<5s, 3mm from case	Tslg	260	°C	

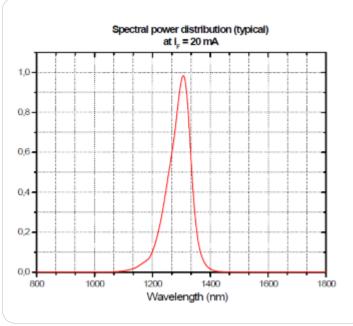
ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	Vf	If=20mA		0.85	1	V
Forward Voltage	Vf	If=100mA		0.95		V
Reverse Voltage	Vr	Ir=10uA	5			V
Radiant Power	Фе	If=20mA	1.6	2.2		mW
Radiant Power	Фе	If=100mA		8.5		mW
Radiant Intensity	Ie	If=20mA		10		mW/sr
Radiant Intensity	Ie	If=100mA		38		mW/sr
Peak Wavelength	λр	If=20mA	1250	1300	1350	nm
Spectral Bandwidth at 50%	Δλ0.5	If=20mA		70		nm
Viewing Angle	φ	If=20mA		20		deg
Switching Time	tr, tf	If=20mA		10		ns

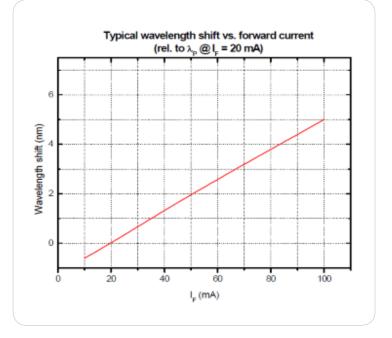
2018-01-08

Product No: MTE0013-525-IR

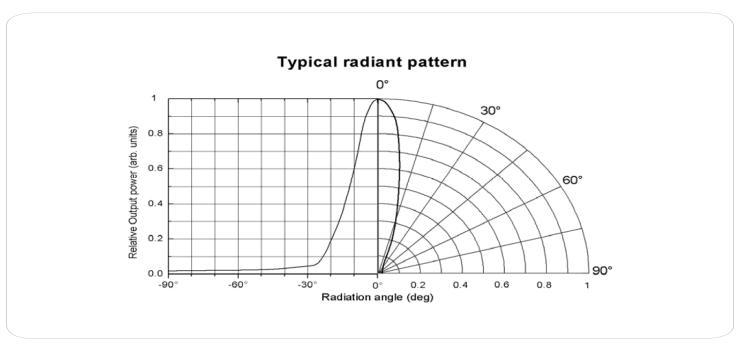








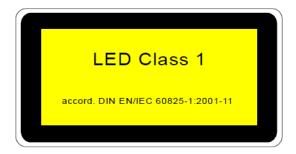
Product No: MTE0013-525-IR



Remarks concerning optical radiation safety*

Up to Maximum Forward current, at continuous operation, this LED may be classified as LED product Class 1, according to standard IEC 60825-1:A2. Class 1 products are safe to eyes and skin under reasonably predictable conditions. This implicates a direct observation of the light beam by means of optical instruments.

*Note: Safety classification of an optical component mainly depends on the intended application and the way the component is being used. Furthermore, all statements made to classification are based on calculations and are only valid for this LED "as it is", and at continuous operation. Using pulsed current or altering the light beam with additional optics may lead to different safety classifications. Therefore these remarks should be taken as recommendation and guideline only.



2018-01-08