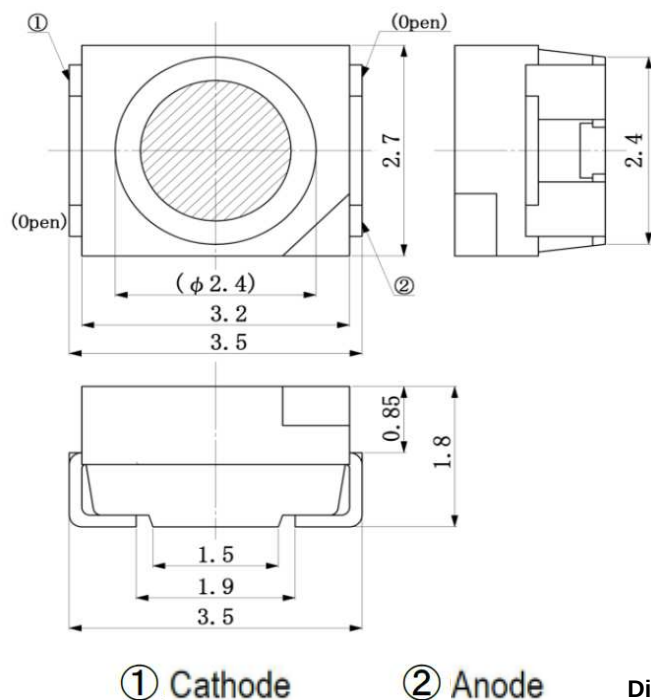


Peak Emission Wavelength: 1450nm



Description

- SMD 3527 (1411) Package
- Type: InGaAs/InP, MQW
- High power
- High speed
- High reliability

Application

- Optical switches
- Optical communication
- Safety equipment
- Automation

Dimensions in mm

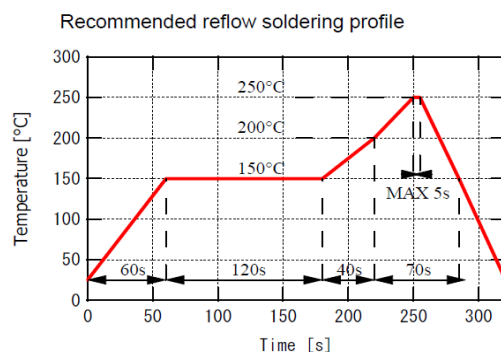
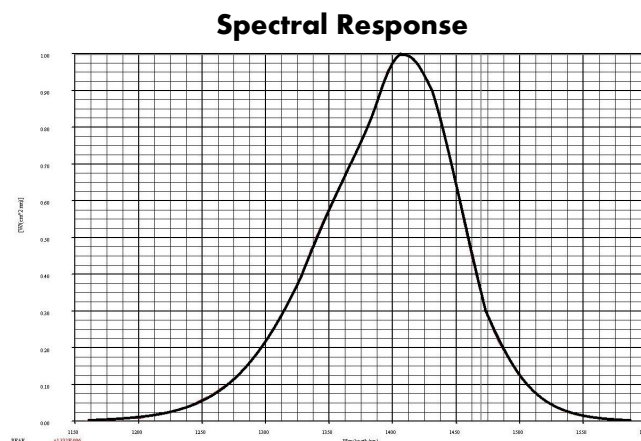
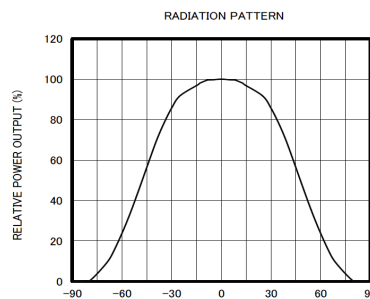
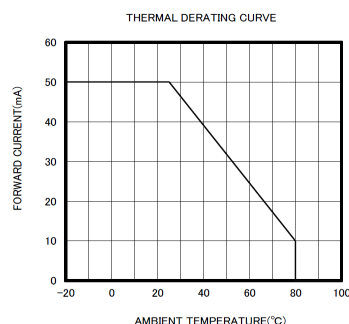
Absolute Maximum Ratings ($T_a=25^\circ\text{C}$)



ITEMS	TEST CONDITIONS	SYMBOL	RATINGS	UNIT
Forward DC Current		I_f	50	mA
Forward Current Pulse	$t \leq 10\mu\text{s}$ or $\leq 10\text{ms}$	I_f	0.5	A
Reverse Voltage		V_r	5	V
Power Dissipation		P_o	120	mW
Operating Temperature Range		T_{op}	-20 to +80	$^\circ\text{C}$
Storage Temperature Range		T_{st}	-30 to +100	$^\circ\text{C}$
Lead Soldering Temperature	$t \leq 5\text{sec}$ 3mm from case	T_{slg}	260	$^\circ\text{C}$

Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	Vf	If=20mA	--	0.7	0.95	V
Forward Voltage	Vf	If=50mA	--	0.8	1.0	V
Reverse Current	Ir	Vr=5V	--	--	100	uA
Output Power	Po	Vr=5V	--	1.8	--	mW
Output Power	Po	If=50mA	--	3.5	--	mW
Peak Wavelength	λ_p	If=20mA	1400	1450	1500	nm
Spectral Bandwidth	$\Delta\lambda_{0.5}$	If=20mA	--	120	--	nm
Viewing Angle	$\Theta_{0.5}$	If=20mA	--	+/-45	--	deg
Switching Time	tr, tf	If=20mA	--	40	--	ns



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