



Infrared
Product Data Sheet
LTE-3273DL

Spec No. :DS50-2014-0066
Effective Date: 07/22/2017
Revision: A

LITE-ON DCC

RELEASE

IR Emitter and Detector LTE-3273DL

3. Absolute Maximum Ratings at TA=25°C

Parameter	Maximum Rating	Unit
Power Dissipation	150	mW
Peak Forward Current (300pps, 10μs pulse)	2	A
Continuous Forward Current	100	mA
Reverse Voltage	5	V
Operating Temperature Range	-40°C to + 85°C	
Storage Temperature Range	-55°C to + 100°C	
Lead Soldering Temperature [1.6mm (.063") From Body]	260°C for 5 Seconds	

4. Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Radiant Intensity	I_E	5.6	8.0		mW/sr	$I_F = 20\text{mA}$
		28.0	40.0			$I_F = 100\text{mA}$
Peak Emission Wavelength	λ_{Peak}		940		nm	$I_F = 20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$		50		nm	$I_F = 20\text{mA}$
Forward Voltage	V_F		1.25	1.6	V	$I_F = 50\text{mA}$
			1.85	2.3		$I_F = 500\text{mA}$
Reverse Current	I_R			100	μA	$V_R = 5\text{V}$
Value Angle	$2\theta_{1/2}$		45		deg.	

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5. Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

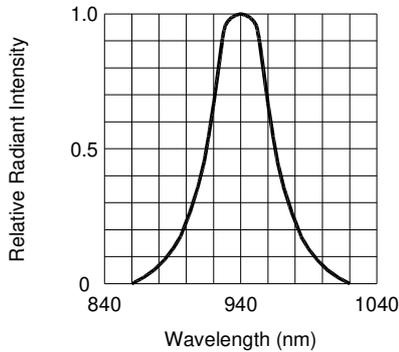


FIG.1 SPECTRAL DISTRIBUTION

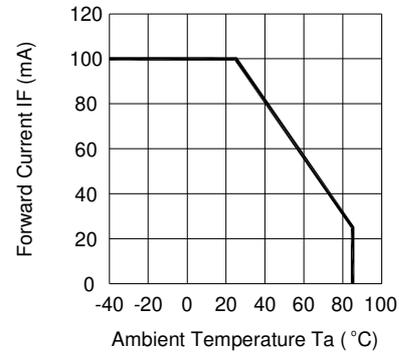


FIG.2 FORWARD CURRENT VS. AMBIENT TEMPERATURE

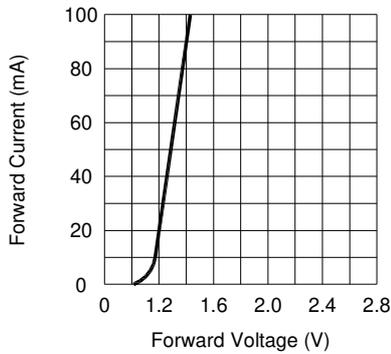


FIG.3 FORWARD CURRENT VS. FORWARD VOLTAGE

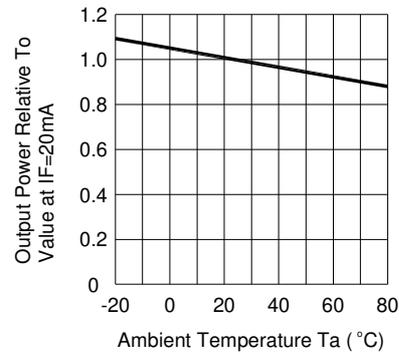


FIG.4 RELATIVE RADIANT INTENSITY VS. AMBIENT TEMPERATURE

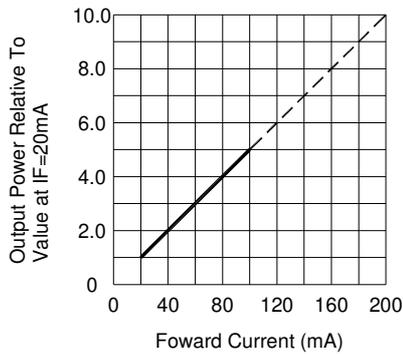


FIG.5 RELATIVE RADIANT INTENSITY VS. FORWARD CURRENT

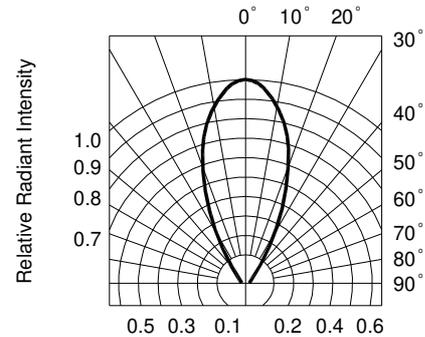


FIG.6 RADIATION DIAGRAM