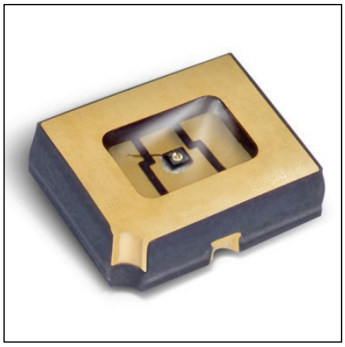
Deep RED SMD LED

OD-685C



FEATURES

- SMD LED with Exceptional Efficiency
- Radiant Intensity Categorized
- Tight Spectral Bandwidth
- Rugged Reduced Footprint Surface Mount Package
- Available on Tape & Reel
- Wide Operating Temperature: -40°C to +125°C
- Ideal for Biological Analysis, Health, Science, Medical, and Veterinary Applications

Electro-Optical Characteristics at 25 °C

Parameters	Test Conditions	Min	Typ	Max	Units
Forward Voltage	I_F = 20 mA		1.8	2.2	V
Radiant Power	I_F = 20 mA	1.0	2.0		mW
Radiant Efficiency	I_F = 20 mA		56		%
Peak Wavelength, λp	I_F = 20 mA		685		nm
Spectral Bandwidth at 50 %, Δλ	I_F = 20 mA		30		nm
Reverse Breakdown Voltage, V_R	I_R = 10 uA	5	10		V
Rise Time[2]	I_{FP} = 20 mA			100	nsec
Fall Time[2]	I_{FP} = 20 mA			40	nsec

Absolute Maximum Ratings at 25°C

Parameters	Value	Units
Power Dissipation	120	mW
Continuous Forward Current	50	mA
Peak Forward Current[1]	100	mA
Storage and Operating Temperature Range	-40 to +125	°C
Maximum Junction Temperature	125	°C

[1] 10 usec @ 300 Hz.

[2] Measured output with photo detector circuit.

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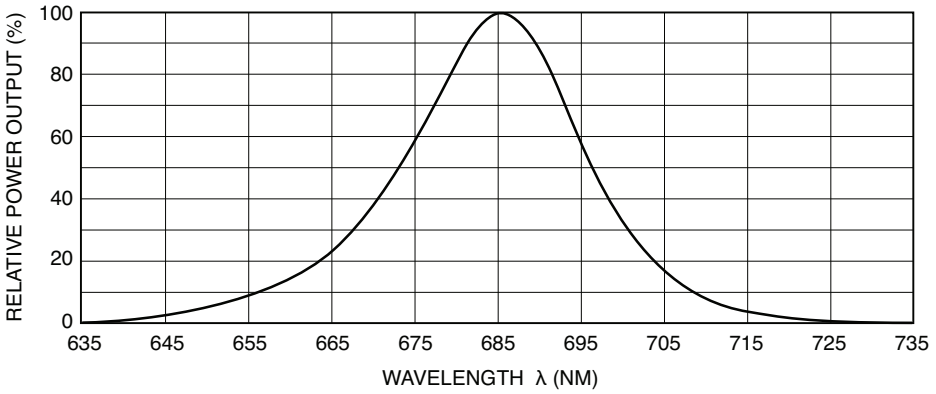
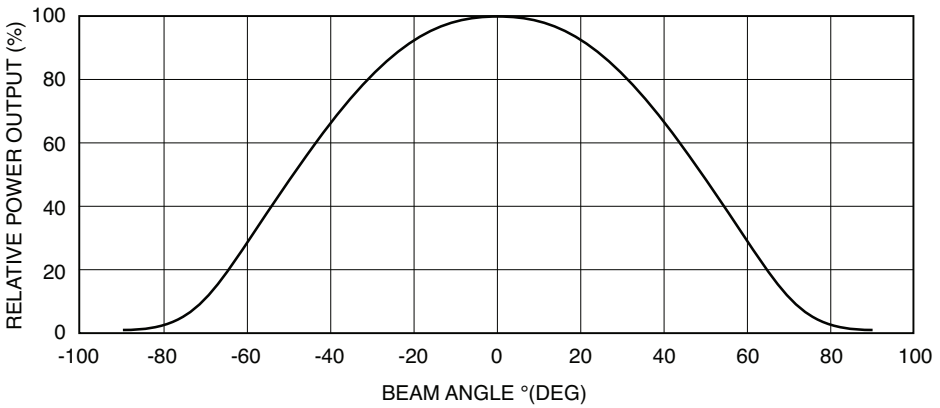
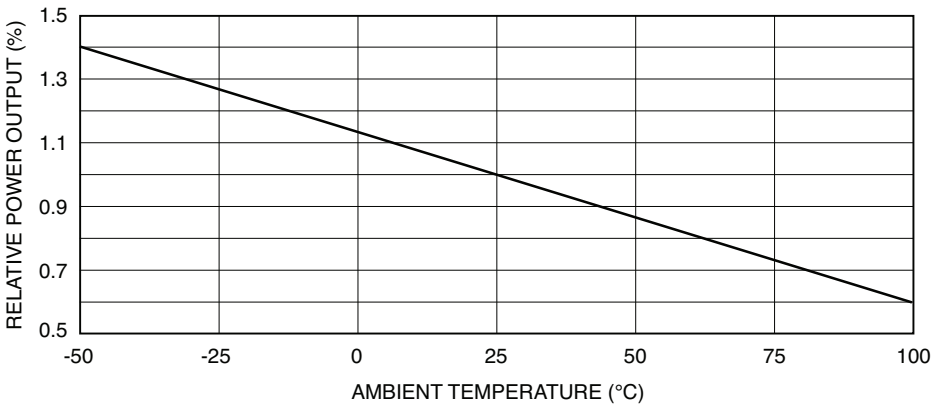
Spectral Output



Radiation Pattern



Power Output vs Temperature



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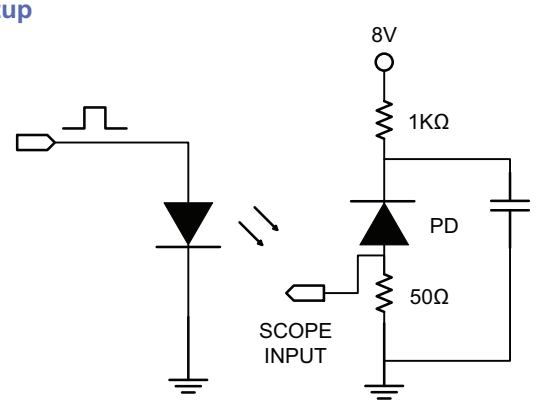
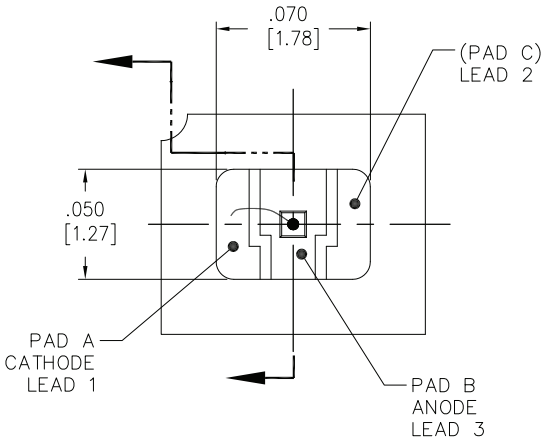
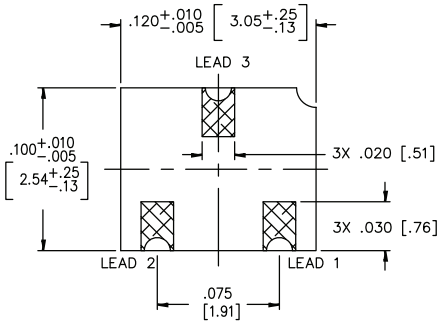
Measured Rise and Fall Time Setup

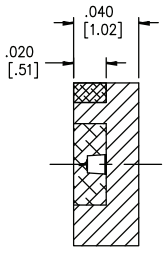


Package Information



Power Output vs Temperature





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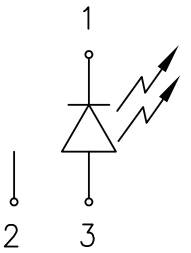
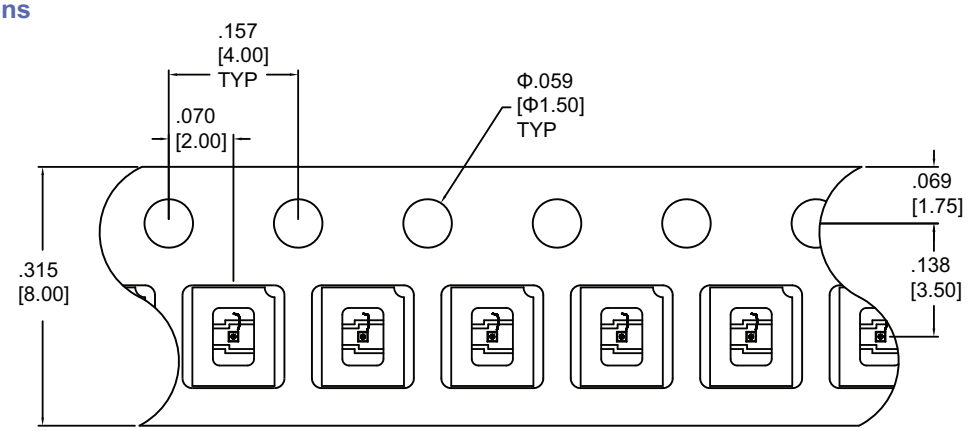
Pin Description

Pins	Lead	Description
A	1	Cathode
B	2	Ground or NC
C	3	Anode



Tape Dimensions



Dimensions are nominal values in inches unless otherwise specified.

Specifications are subject to change without prior notice.