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Data sheet

Red LED

EOLD-670-344

Rev. 03, 2017

Radiation	Type	Case
deep red	AlGaAs	3 mm plastic lens

Description:	
	<p>Red LED in standard 3 mm housing without standoff leads, small package allows compact design</p> <p>All dimensions in mm</p>

Maximum Ratings

$T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Continuous forward current		I_F	50	mA
Operating temperature range		T_{amb}	-20 to +80	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-30 to +85	$^{\circ}\text{C}$
Lead soldering temperature	$t=3$ s, 3 mm from case	T_{slg}	260	$^{\circ}\text{C}$

Optical and Electrical Characteristics

$T_{amb} = 25^{\circ}\text{C}$, unless otherwise specified

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V_F	$I_F = 20$ mA		1.8	2.6	V
Reverse voltage	V_R	$I_F = 10$ μA	5			V
Peak wavelength	λ_p	$I_F = 20$ mA	660	670	680	nm
FWHM	$\Delta\lambda_{0.5}$	$I_F = 20$ mA		15		nm
Viewing angle	φ	$I_F = 20$ mA		35		deg.
Luminous intensity	I_V	$I_F = 20$ mA		200		mcd
Luminous intensity	I_V	$I_F = 50$ mA		350		mcd
Radiant Intensity	I_e	$I_F = 20$ mA		9		mW/sr
Radiant Intensity	I_e	$I_F = 50$ mA		23		mW/sr
Switching time	t_r, t_f	$I_F = 10$ mA		50		ns

Art. No. 131 016



We reserve the right to make changes to improve technical design and may do so without further notice. Parameters can vary in different applications. All operating parameters must be validated for each customer application by the customer.