

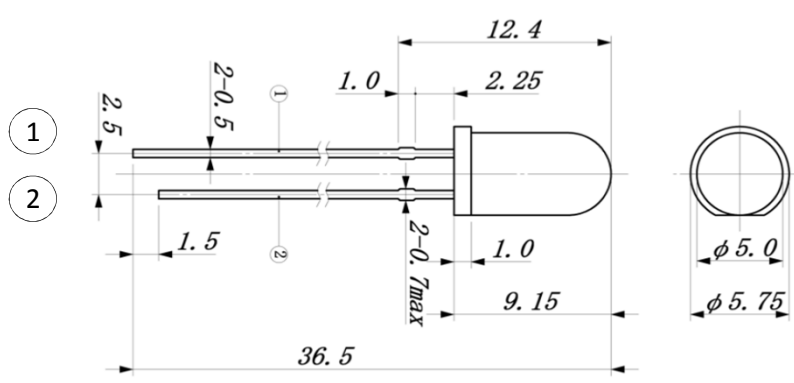
Data sheet

Infrared LED

EOLD-850-515

Radiation	Type	Case
Infrared	AlGaAs	5 mm plastic lens

Description:	
High output power Narrow beam angle High reliability	



1 Anode
2 Cathode

All dimensions in mm

Maximum Ratings

T_{amb}= 25°C, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Forward current		I _F	100	mA
Peak forward current	t=10 μs, T=10 ms	I _{FP}	1	A
Power dissipation		P _D	190	mW
Operating temperature range		T _{amb}	-20 to +80	°C
Storage temperature range		T _{stg}	-30 to +85	°C
Lead soldering temperature	t< 5 s, 3 mm from case	T _{slg}	260	°C
Junction temperature		T _J	100	°C

Optical and Electrical Characteristics

T_{amb}= 25°C, unless otherwise specified

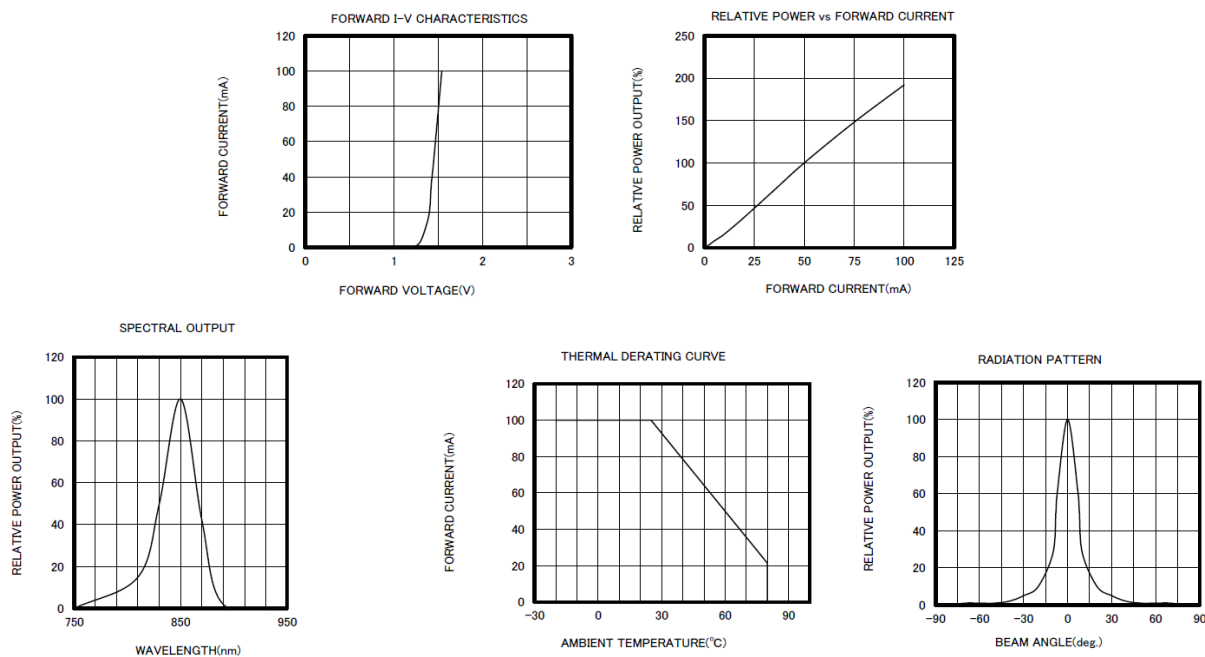
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage	V _F	I _F = 50 mA		1.45	1.9	V
Reverse current	I _R	VR= 5 V			100	μA
Radiant power	Φ _e	I _F = 50 mA		25		mW
Peak wavelength	λ _p	I _F = 50 mA	840	850	860	nm
FWHM	Δλ _{0,5}	I _F = 20 mA		30		nm
Viewing angle	φ	I _F = 20 mA		±8		deg.



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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.