

MTE8800C-S

Features

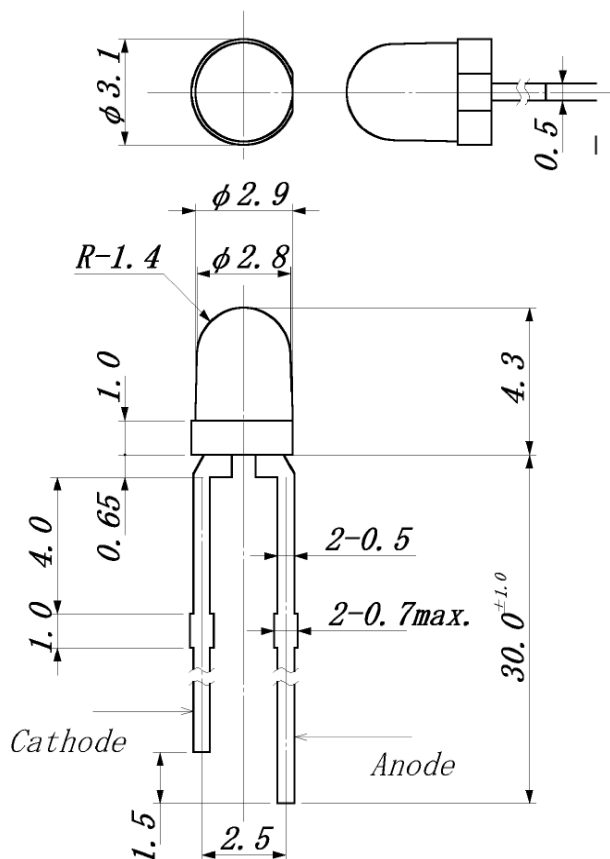
High Output Power
Compact Package
High Reliability

Applications

Optical Switches
Optical Sensors

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Test Condition	Unit
Forward Current	I _F	100	—	mA
Pulsed Forward Current	I _{FP}	1.00	tw=10μ S, T=10mS	A
Reverse Voltage	V _R	5	—	V
Power Dissipation	P _D	100.00	—	mW
Operating Temperature	T _{opr}	-20 ~ +80	—	°C
Storage Temperature	T _{stg}	-30 ~ +100	—	°C
Junction Temperature	T _j	100	—	°C
Soldering Temperature	T _{sol}	260	for 5 sec. max	°C



Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =20mA	–	1.50	1.80	V
Reverse Current	I _R	V _R =5V	–	–	10	μ A
Power Output	PO	I _F =20mA	5.00	7.50	–	mW
Half Intensity Beam Angle	θ	–	–	± 20°	–	deg.
Peak Wavelength	λ _p	I _F =20mA	–	870	–	nm
Spectral Line Half Width	Δλ	I _F =20mA	–	45	–	nm
Rise Time	T _r	IFP=50mA	–	1.50	–	ns
Fall Time	T _f	IFP=50mA	–	.80	–	ns
Temp Coefficient of PO	P/T	IF=10mA	–	–.50	–	%/°C
Temp Coefficient of VF	V/T	IF=10mA	–	–1.50	–	mV/°C
Junction Capacitance	C _j	1 MHz, V=0V	–	15	–	pF

Company Headquarters

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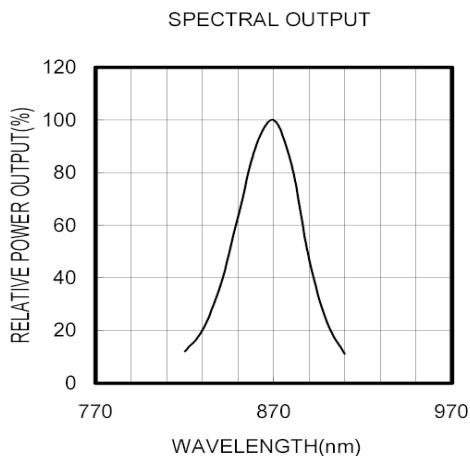
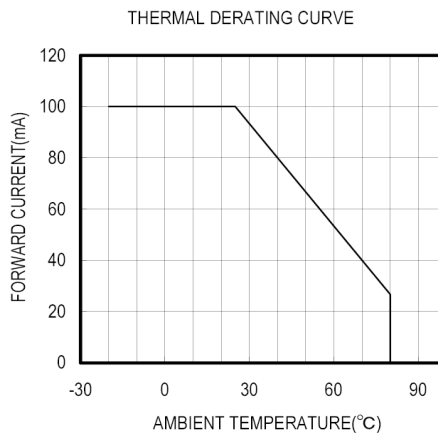
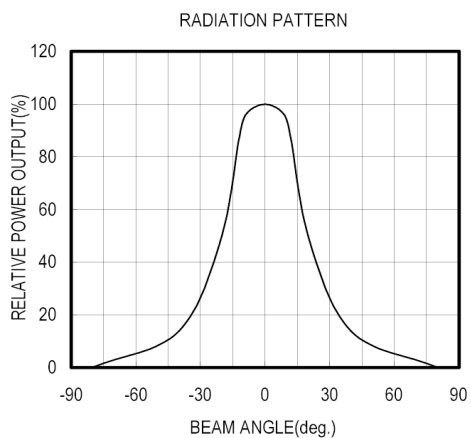
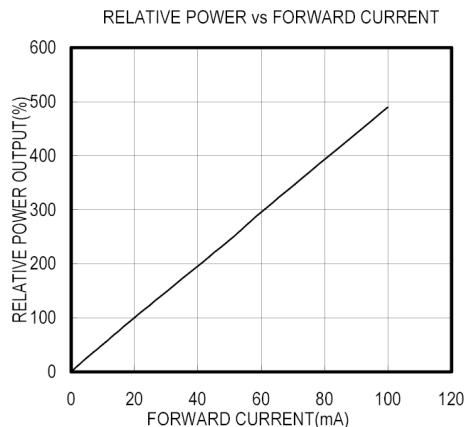
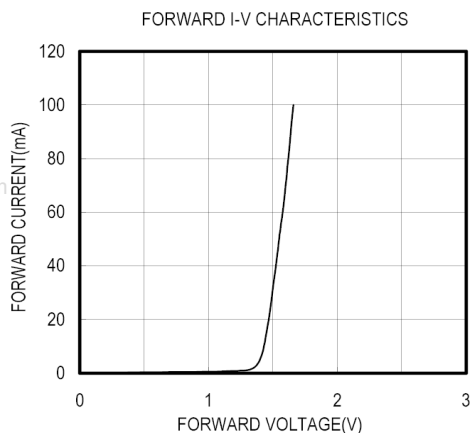
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MTE8800C-S Graphs



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