

MTE4094L

Features

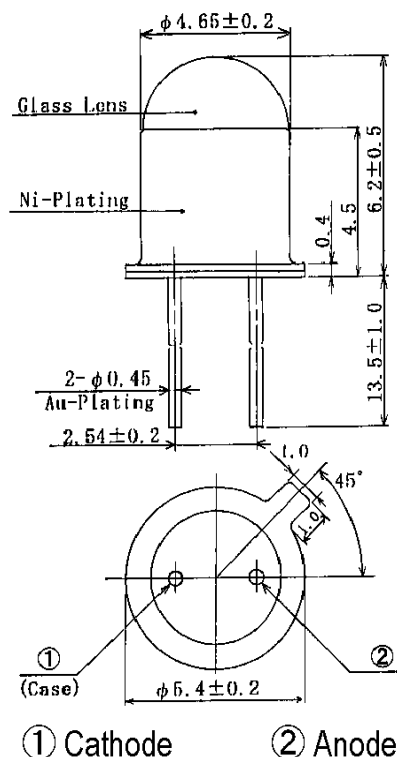
High Power Output
Narrow Beam Angle
High Reliability

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=10μs, T=10mS	A
Reverse Voltage	V _R	5	—	V
Power Dissipation	P _D	180.00	—	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 =50mA	—	1.35	1.70	V
Reverse Current	I _R	V _R =5V	—	—	10	μA
Power Output	P _O	I _F =50mA	—	5.50	—	mW
Half Intensity Beam Angle	θ	—	—	± 4°	—	deg.
Peak Wavelength	λ _p	I _F =50mA	—	945	—	nm
Spectral Line Half Width	Δλ	I _F =50mA	—	50	—	nm
Rise Time	T _r	I _{FP} =50mA	—	1000.00	—	ns
Fall Time	T _f	I _{FP} =50mA	—	1000.00	—	ns
Temp Coefficient of P _O	P/T	I _F =10mA	—	-0.50	—	%/°C
Temp Coefficient of V _F	V/T	I _F =10mA	—	-1.30	—	mV/°C
Junction Capacitance	C _j	1 MHz, V=0V	—	20	—	pF

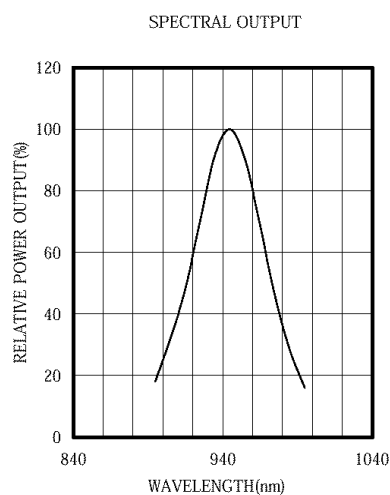
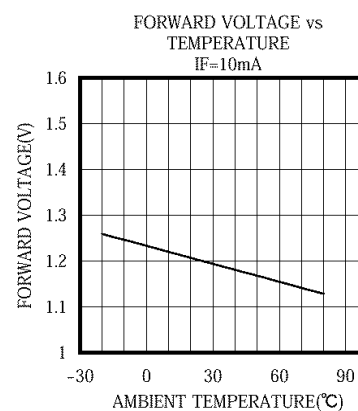
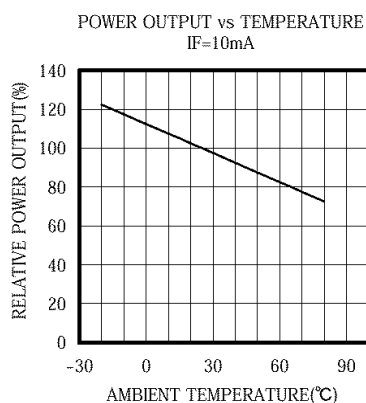
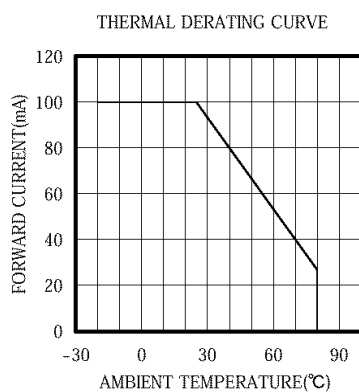
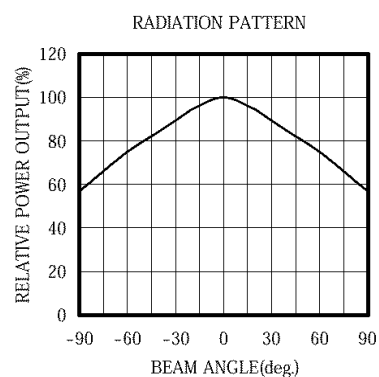
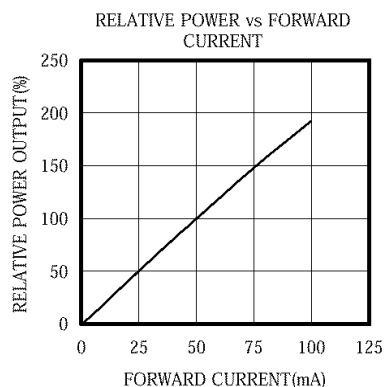
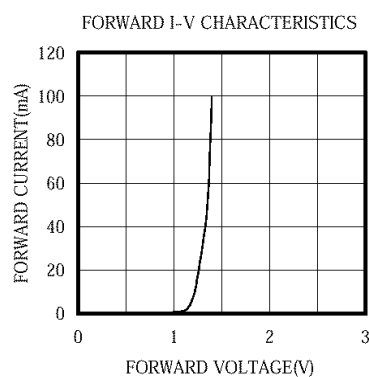
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5mm Metal Can IR Emitter

MTE4094L Graphs



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