

MTE8080WM

Features

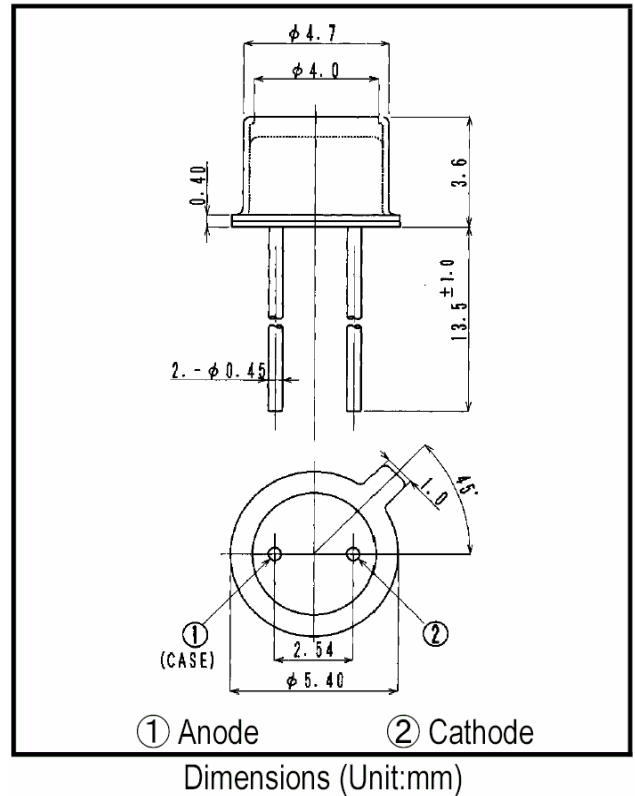
High Output Power
High Reliability in Demanding Enviroments

Applications

Optical Switches
Optical Emitters

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=10S,T=10mS	A
Reverse Voltage	V _R	5	-	V
Power Dissipation	P _D	180.00	-	mW
Operating Temperature	T _{opr}	-65 ~ +125	-	°C
Storage Temperature	T _{stg}	-65 ~ +150	-	°C
Junction Temperature	T _j	-	-	°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	-	1.45	1.80	V
Reverse Current	I _R	V _R =5V	-	-	10	μA
Power Output	PO	I _F =I _F =50mA	-	4.00	-	mW
Half Intensity Beam Angle	θ	-	-	± 20°	-	deg.
Peak Wavelength	λ _p	I _F =50mA	-	880	-	nm
Spectral Line Half Width	Δλ	I _F =50mA	-	60	-	nm
Rise Time	T _r	I _{FP} =50mA	-	1.50	-	ns
Fall Time	T _f	I _{FP} =50mA	-	.80	-	ns
Temp Coefficient of PO	P/T	I _F =10mA	-	-0.50	-	%/°C
Temp Coefficient of V _F	V/T	I _F =10mA	-	-1.50	-	mV/°C
Junction Capacitance	C _j	1 MHz, V=0V	-	15	-	pF

MTE8080WM Graphs

