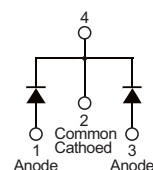


■ PRODUCT CHARACTERISTICS

VR(@IC=0.5mA)	150V
VF(@IF=5A)	0.85V
IR(@VR=150V)	20uA
ID	10A

Symbol

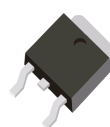


■ MECHANICAL CHARACTERISTICS

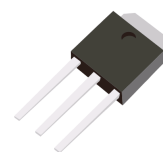
- * Case: Epoxy, Molded
- * Finish: All External Surfaces Corrosion Resistant and Terminal
- * Leads are Readily Solderable
- * Lead Temperature for Soldering Purposes:
260 °C Max. for 10 Seconds

■ FEATURES

- * Guard Ring for Stress Protection
- * Low Forward Voltage
- * Low Power Loss/High Efficiency
- * High Surge Capacity
- * Low Stored Charge Majority Carrier Conduction
- * Pb Free Packages are Available*



TO-252



TO-251

■ ORDER INFORMATION

Order codes		Package	Packing
Halogen-Free	Halogen		
N/A	MOT10150C	TO-251	70 pieces/Tube
N/A	MOT10150D	TO-252	2500 pieces/reel

■ MAIMUM RATINGS (Each Diode Leg)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	150	V
Average Rectified Output Current	(Total)	10	A
	(per Leg)	5	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Reate Load	I_{FSM}	150	A
Operationg and Storage Temperature Range	T_J, T_{STG}	-55 to + 175	°C

■ ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Test Conditions	Min	Typ.	Max	Unit
Peak Repetitive Reverse Voltage	B_V	$I_C=0.5mA$ $T_J=25^{\circ}C$	—	160	—	V
Forward Voltage Drop	V_F	$I_F=5A$, $T_J=25^{\circ}C$	—	0.83	0.85	V
Leakage Current	I_R	$V_R=150V$, $T_J=25^{\circ}C$	—	—	0.02	mA
		$V_R=150V$, $T_J=125^{\circ}C$	—	—	6	

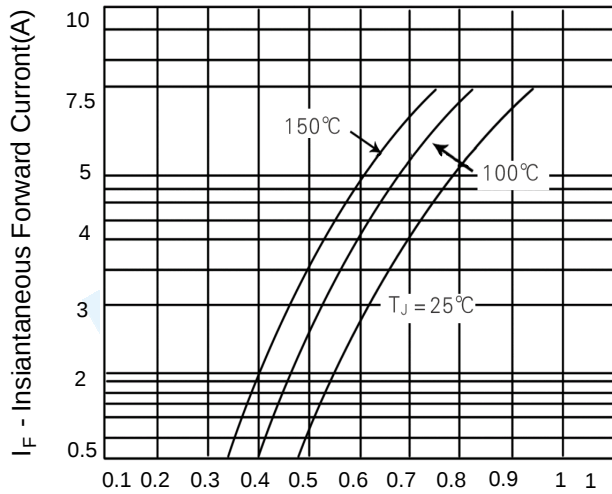


Figure 1. Typical Forward Voltage Per Diode

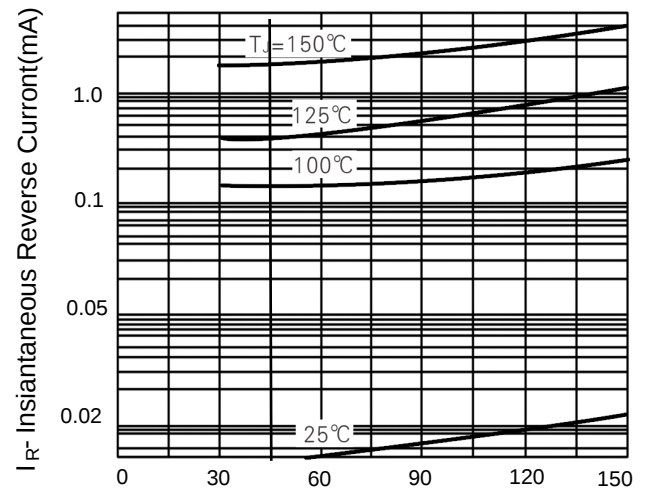


Figure 2. Typical Reverse Current Per Diode

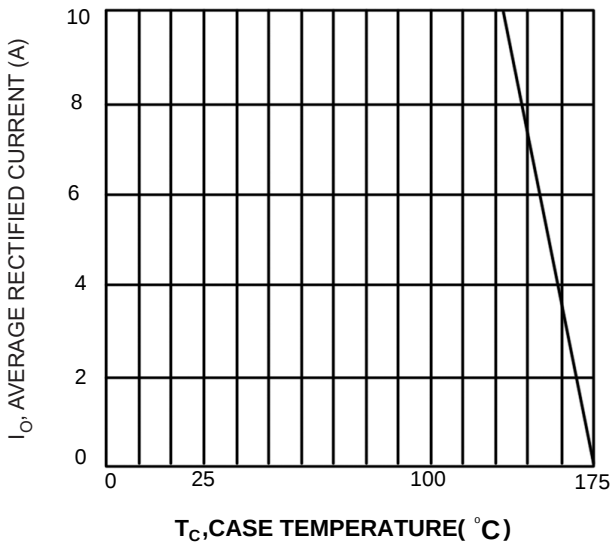


Fig.3 Forward Current Derating Curve

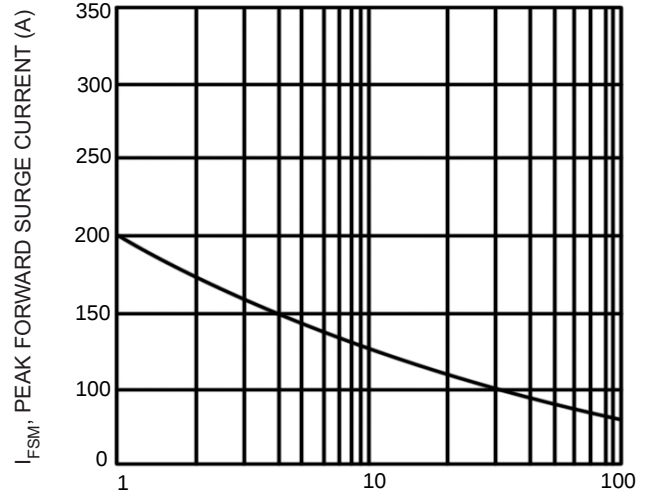
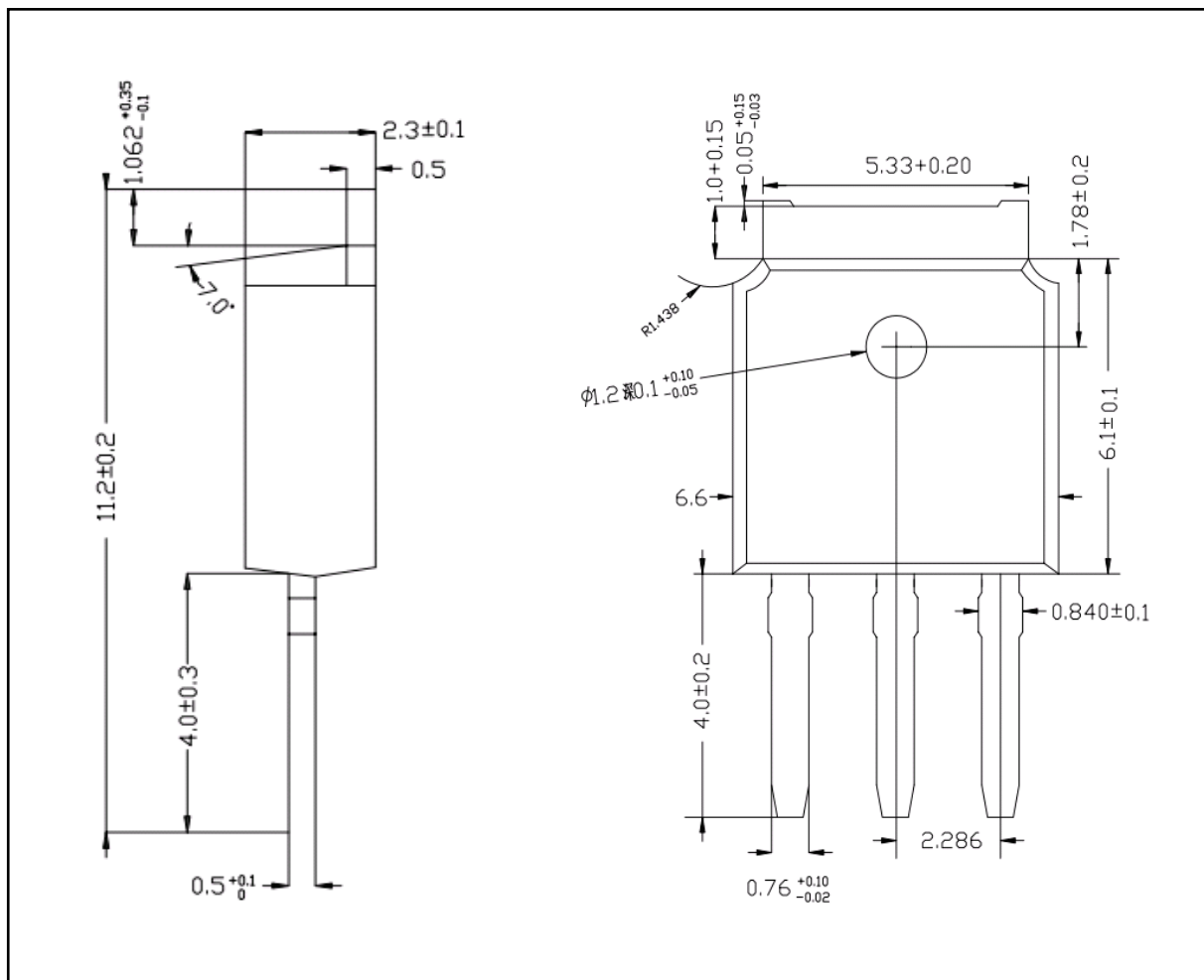


Fig.4 Max Non-Repetitive Surge Current

■ TO-251-3L PACKAGE OUTLINE DIMENSIONS



■ TO-252-2L PACKAGE OUTLINE DIMENSIONS

