



MBRF40150AT

40 AMPERES SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage 150V

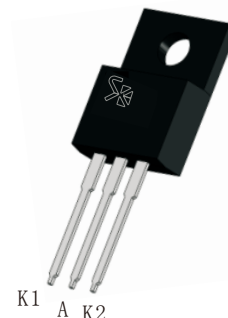
Forward Current 40 A

FEATURES

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed
- Mounting position: any

Mechanical data

- Case: TO-220F
- Approx. Weight: 2.1g (0.07oz)
- Terminals: Lead solderable per MIL-STD-202, Method 208



TO-220F

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

Parameter		Symbol	Spec. Limit			Unit
			Min.	Typ.	Max.	
Max. Repetitive Peak Reverse Voltage @0.5mA		V _{RRM}	150			V
Max. Average Forward Rectified Current Per diode		I _{F(AV)}			20	A
Per device					40	
Forward Voltage Drop Per diode	I _F =3A I _F =10A	V _F		0.64 0.73	0.68	V
Max. Reverse Current at V _{RRM} @150V		I _R		2	10	μA
Operating Temperature Range		T _J	-55		+150	°C
Storage Temperature Range		T _{STG}	-55		+150	°C



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Fig.1 TYPICAL FORWARD CURRENT DERATING CURVE

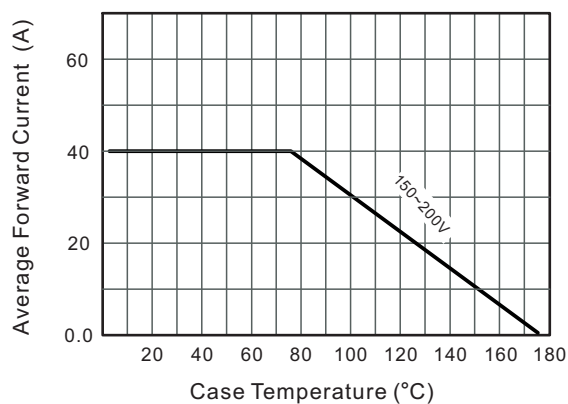


Fig.2 Typical Reverse Characteristics

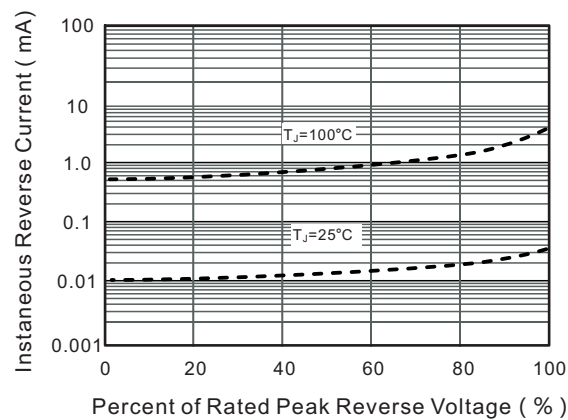


Fig.3 Typical Forward Characteristic(per leg)

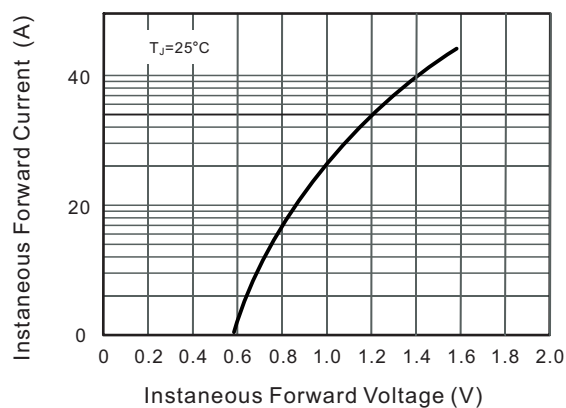


Fig.4 Typical Junction Capacitance

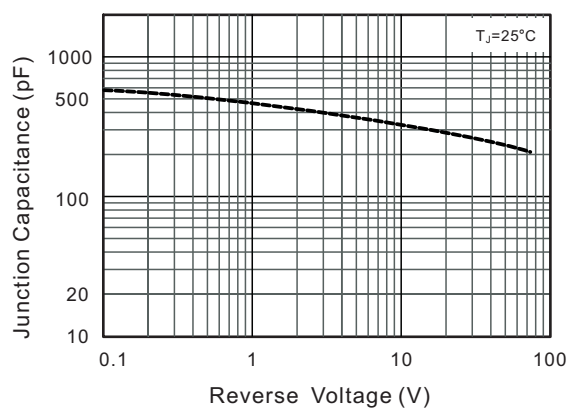


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

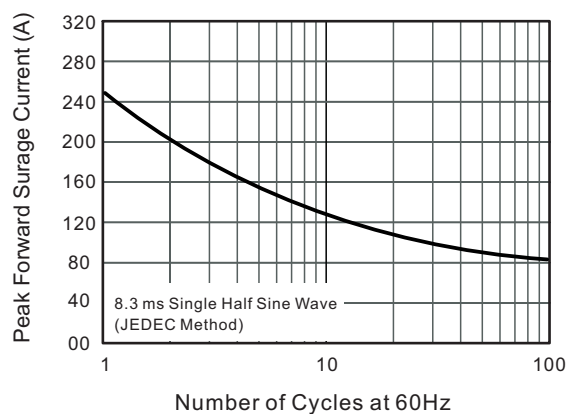
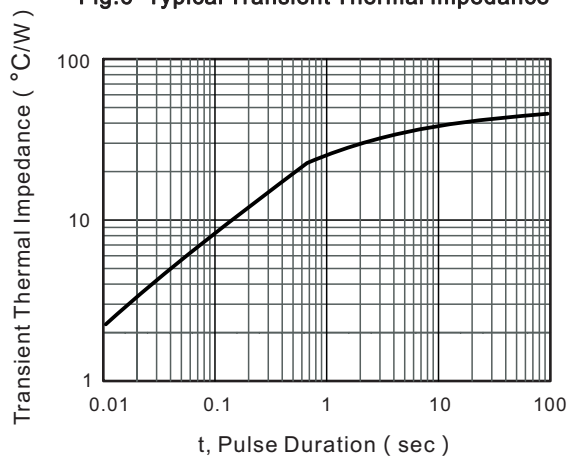


Fig.6- Typical Transient Thermal Impedance



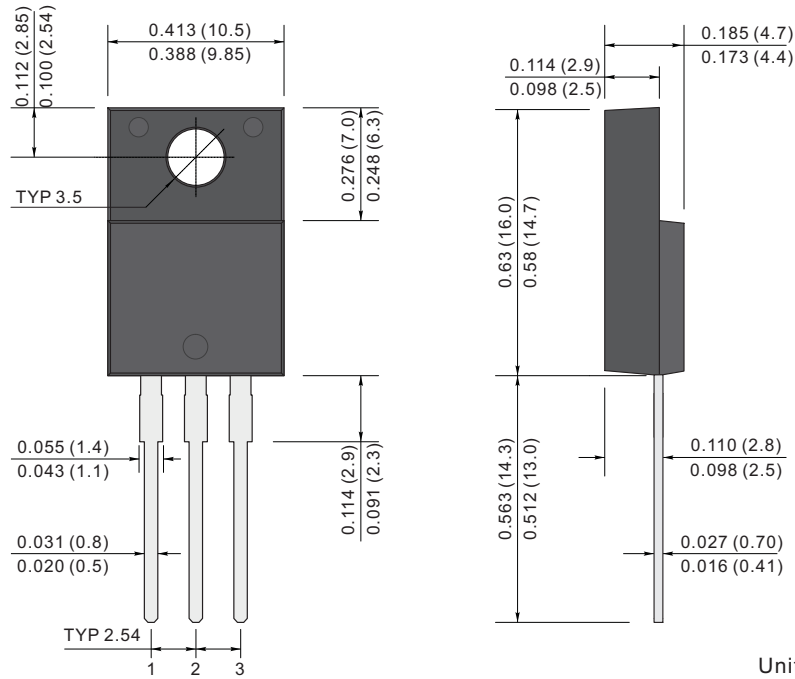


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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

TO-220F



Unit:inch (mm)