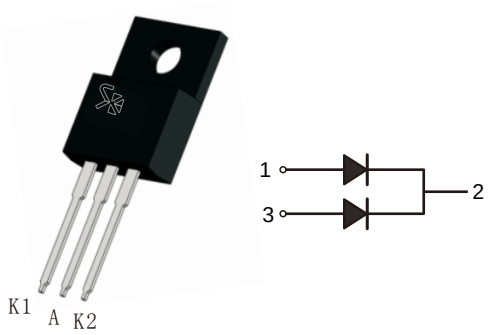
MBRF40150AT

40 AMPERES SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage 150V

Forward Current 40 A



TO-220F

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

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ 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 Per device		$I_{F(AV)}$			20 40	A
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	℃
Storage Temperature Range		T_{STG}	-55		+150	℃

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Fig.1 TYPICAL FORWARD CURRENT DERATING CURVE

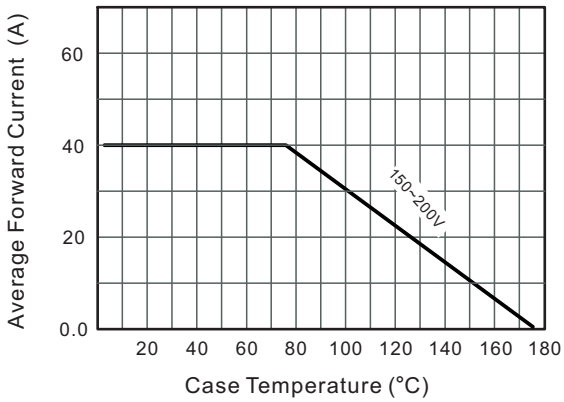


Fig.2 Typical Reverse Characteristics

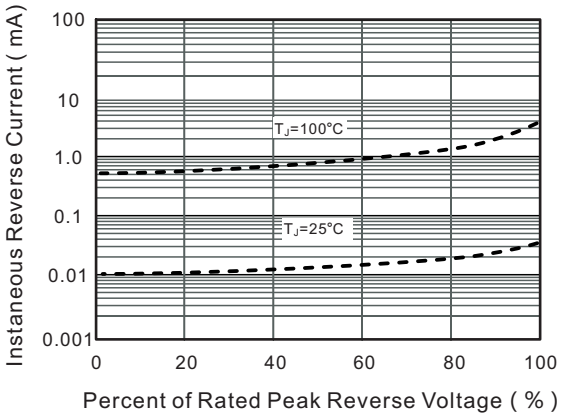


Fig.3 Typical Forward Characteristic(per leg)

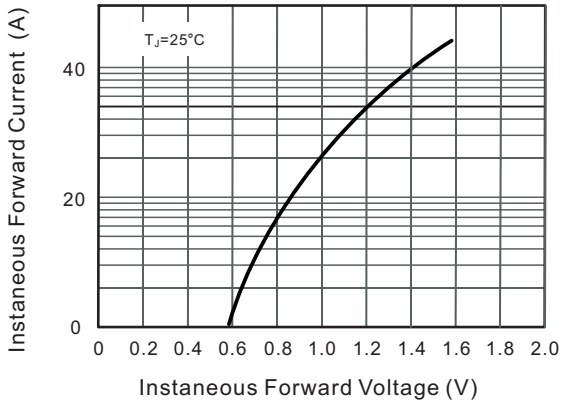


Fig.4 Typical Junction Capacitance

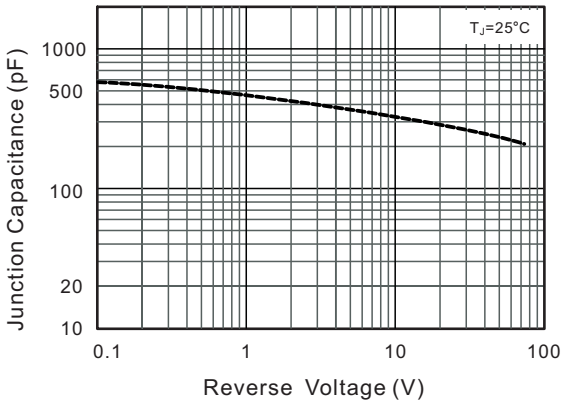


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

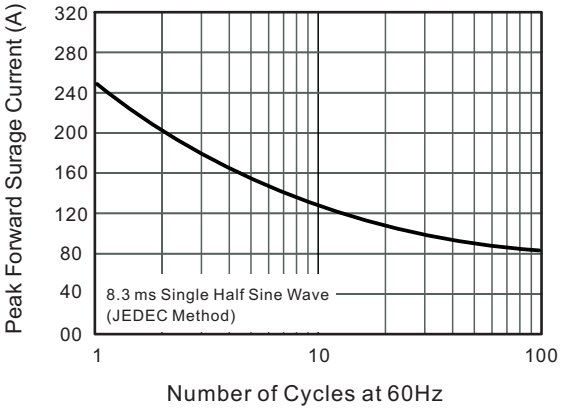
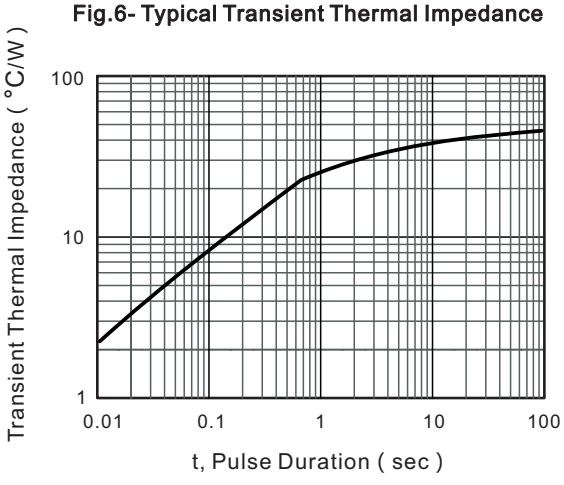


Fig.6- Typical Transient Thermal Impedance

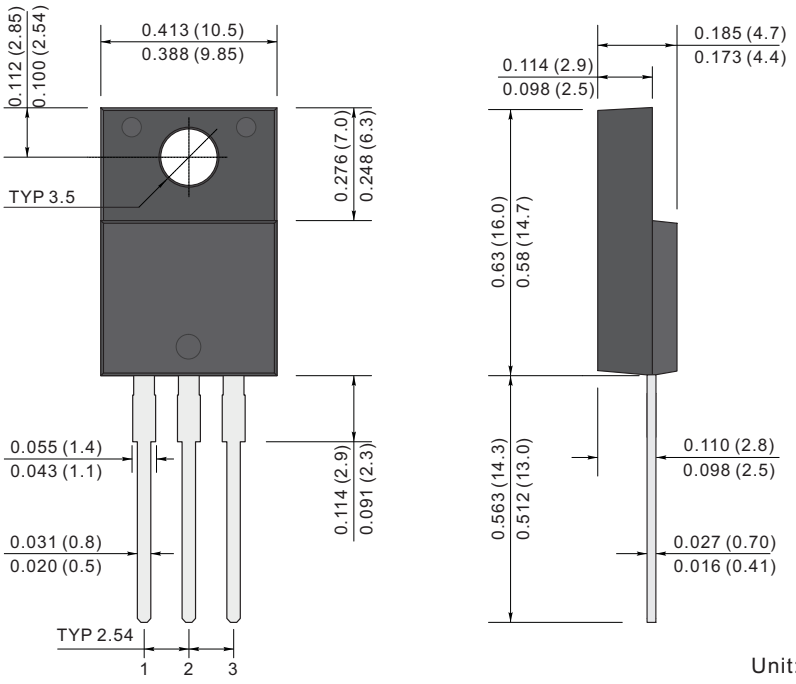


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PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

TO-220F



Unit:inch (mm)

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