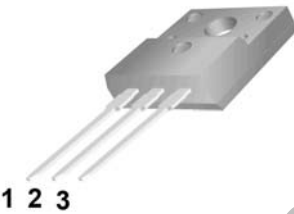
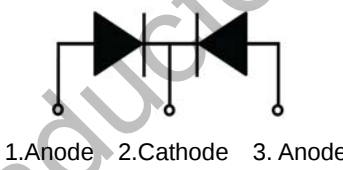


20 AMPS SCHOTTKY BARRIER RECTIFIER

 MBRF2045VCT Features: ☐ Low power loss ☐ Low forward voltage . ☐ High surge capacity ☐ High efficiency ☐ Metal silicon junction	TO-220F   
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Absolute Maximum Ratings* (Ta=25°C unless otherwise noted)

Parameter		Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	45	V
Maximum RMS Voltage		V_{RMS}	31.5	V
Maximum DC Blocking Voltage		$V_{R(DC)}$	45	V
Maximum Average Forward Current (per device)		$I_{F(AV)}$	20	A
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I_{FSM}	180	A
Maximum Forward Voltage @ $I_F=10A_{pk}$, $T_j=25^\circ C$		V_F	0.53	V
Maximum DC Reverse Current	$T_j=25^\circ C$	I_R	0.1	mA
	$T_j=125^\circ C$		20	mA
Maximum Operating Junction Temperature		T_j	150	°C
Storage Temperature		T_{stg}	-65~+150	°C

Typical Characteristics

FIG.1 FORWARD CURRENT DERATING CURVE

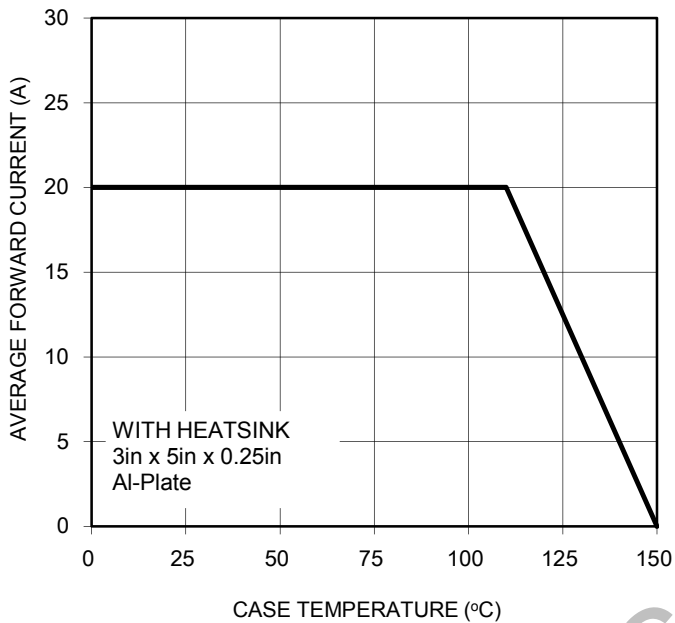


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

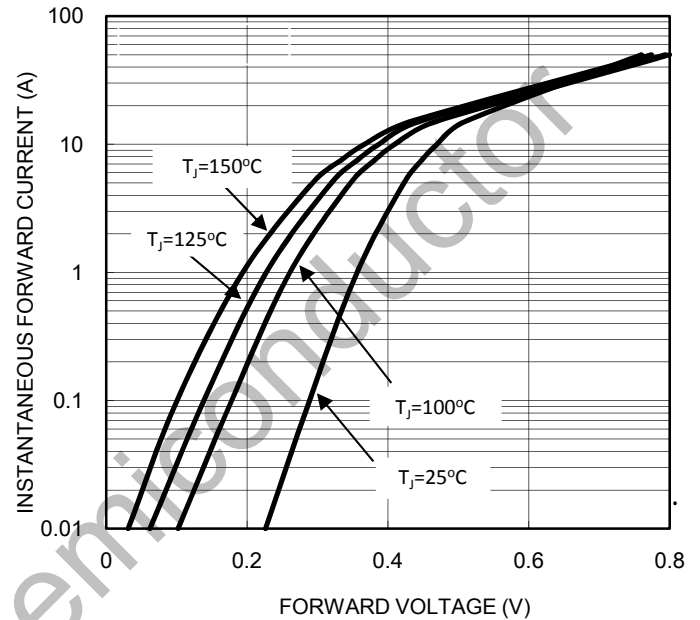


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

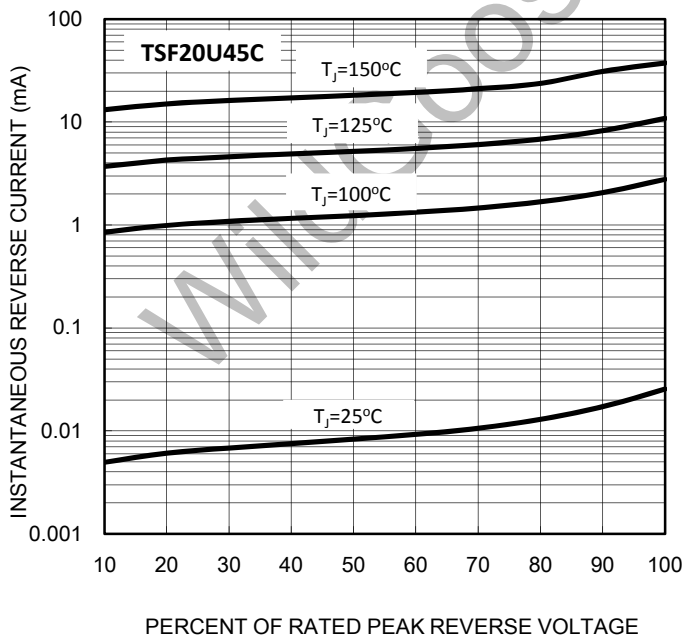
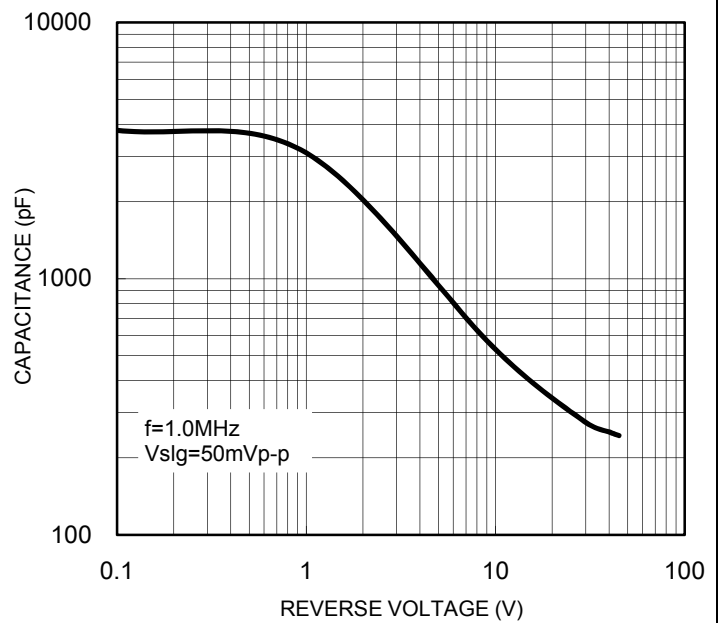


FIG. 6 TYPICAL JUNCTION CAPACITANCE



Package Dimension

TO-220F

Unit: mm

