

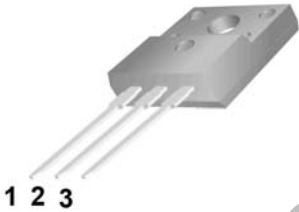
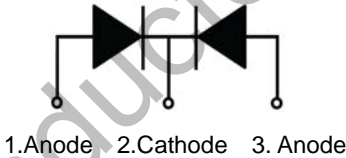


20 AMPS SCHOTTKY BARRIER RECTIFIER

 <h2 style="margin-top: 20px;">MBRF2045VCT</h2> <p>Features:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Low power loss <input type="checkbox"/> Low forward voltage . <input type="checkbox"/> High surge capacity <input type="checkbox"/> High efficiency <input type="checkbox"/> Metal silicon junction 	<p style="text-align: center;">TO-220F </p>   <p style="text-align: center;">1.Anode 2.Cathode 3. Anode</p>
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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 @IF=10A _{pk} , Tj=25 °C	V_F	0.53	V
Maximum DC Reverse Current	I_R	Tj=25°C	0.1 mA
		Tj=125°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

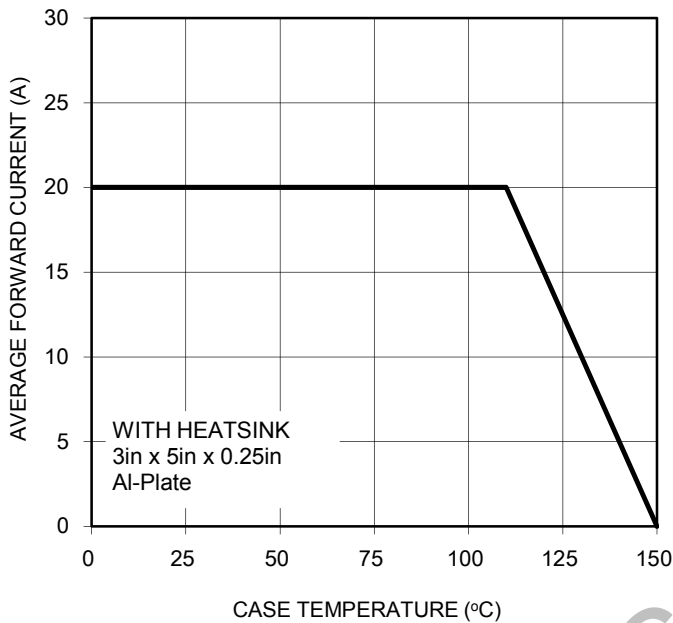


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

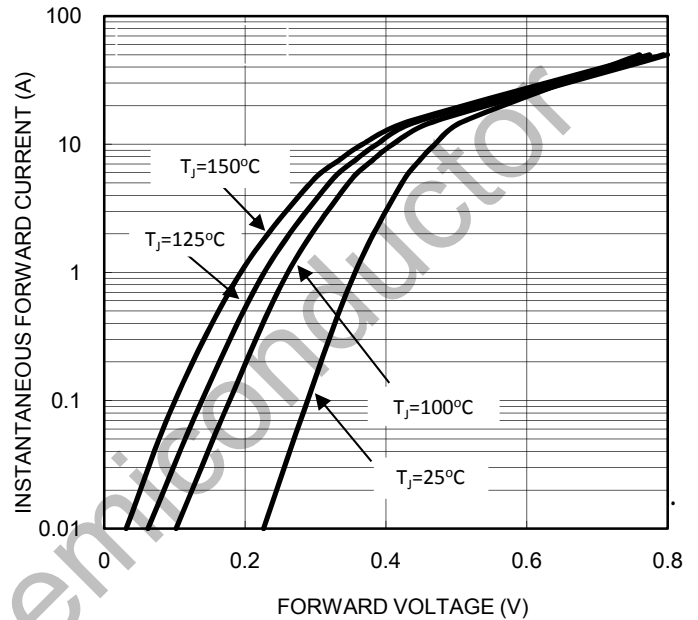


FIG. 3 TYPICAL REVERSE CHARACTERISTICS

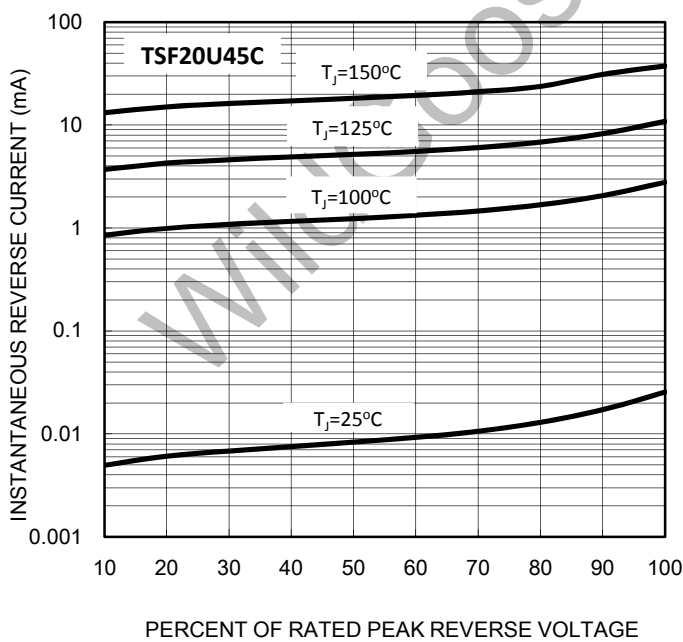
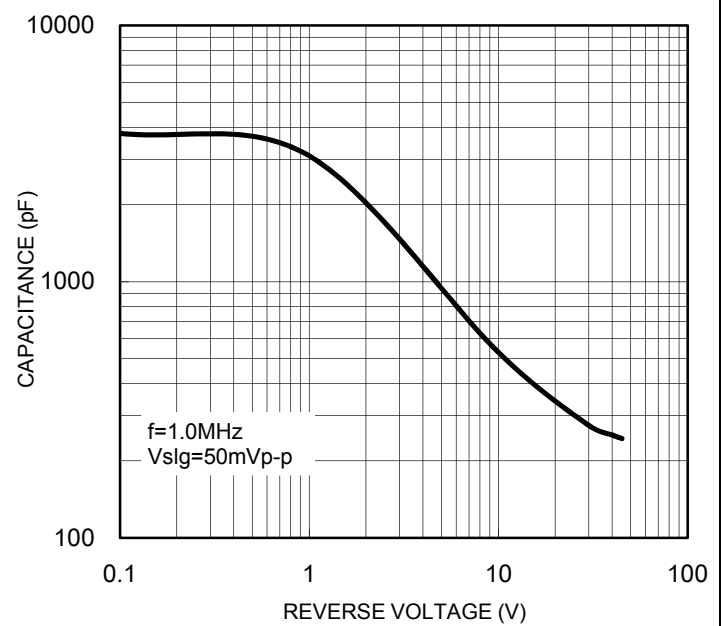


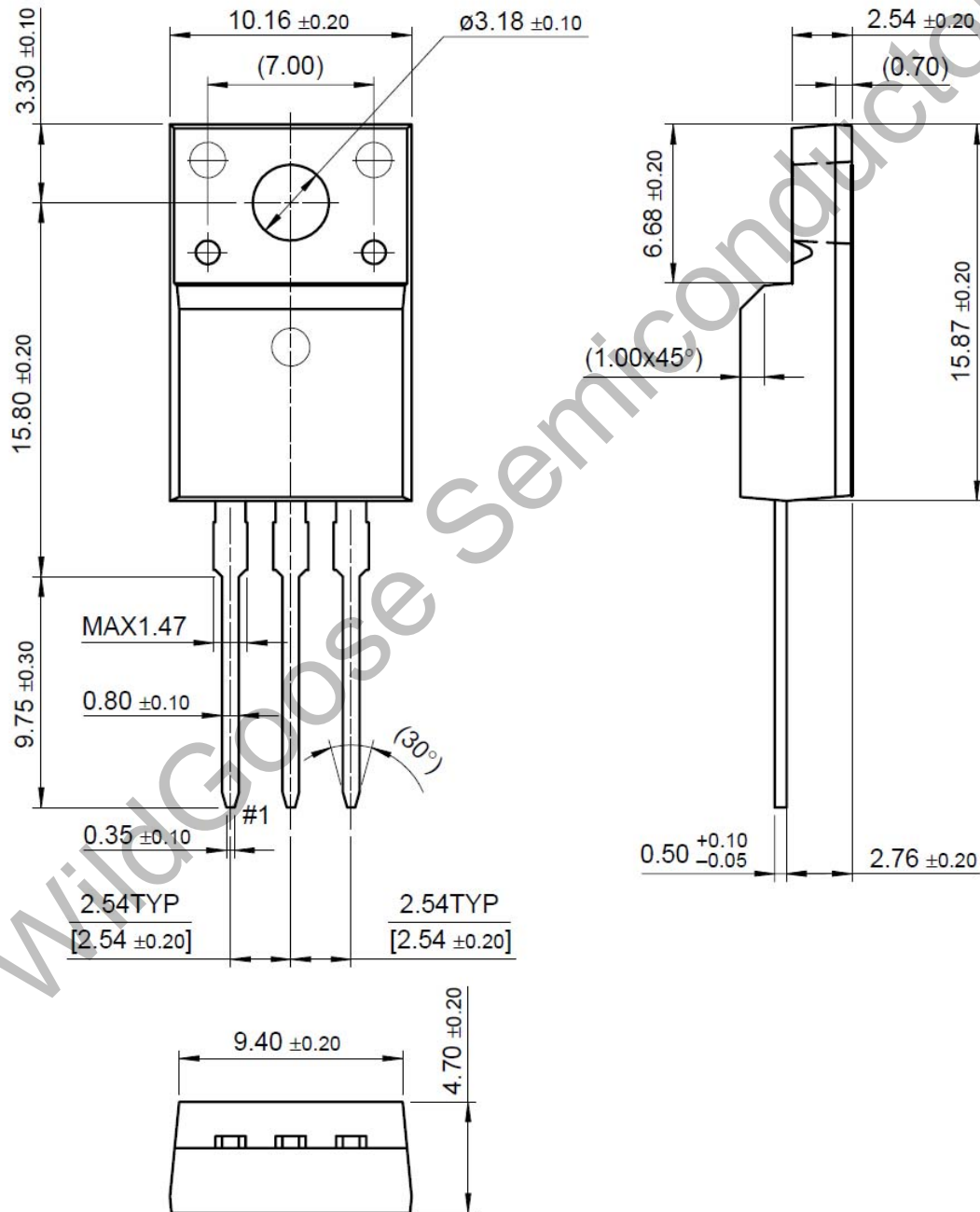
FIG. 6 TYPICAL JUNCTION CAPACITANCE



Package Dimension

TO-220F

Unit: mm



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