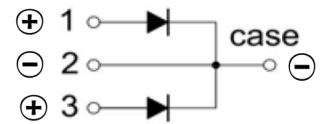


**SCHOTTKY BARRIER DIODE**
**FEATURES**

- Low power loss, high efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- Guard Ring for over voltage protection
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications


**TO-220F**
**MECHANICAL DATA**

- Case: TO-220F
- Case Material: Molded Plastic. UL flammability
- Classification Rating: 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Weight: 2.00 grams (approximate)


**MAXIMUM RATINGS (T<sub>A</sub> = 25°C unless otherwise noted)**

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	V <sub>RRM</sub>	200	V
DC Reverse Voltage	V <sub>R</sub>	200	V
RMS Reverse Voltage	V <sub>RMS</sub>	140	V
Non-Repetitive Peak Forward Surge Current @ t = 8.3 ms	I <sub>FSM</sub>	150	A
Mean rectifying current	I <sub>F</sub>	20	A
Power dissipation	P <sub>D</sub>	2	W
Thermal Resistance From Junction To Ambient	R <sub>θJA</sub>	50	°C/W
Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature	T <sub>STG</sub>	-55 ~+150	°C

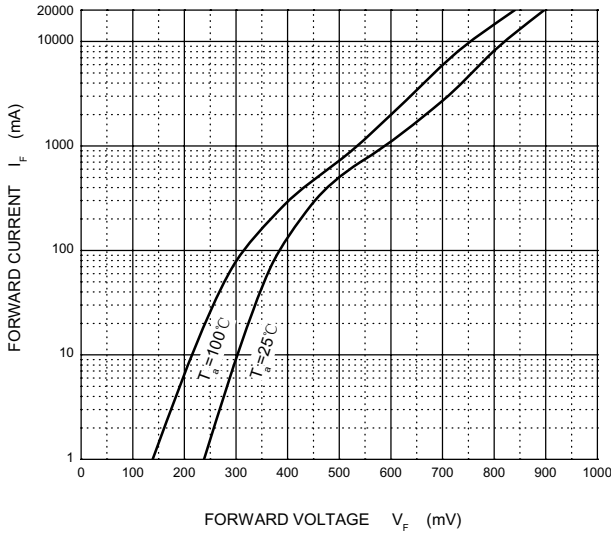
**ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C unless otherwise specified)**

Parameter	Symbol	Min	Max	Unit	Conditions
Forward voltage	V <sub>F</sub>		1	V	I <sub>F</sub> =10A
			1.2	V	I <sub>F</sub> =20A (PLUST TEST)
Reverse current	I <sub>R</sub>		0.10	mA	V <sub>R</sub> =200V
Reverse voltage	V <sub>R</sub>	200		V	I <sub>R</sub> =1mA

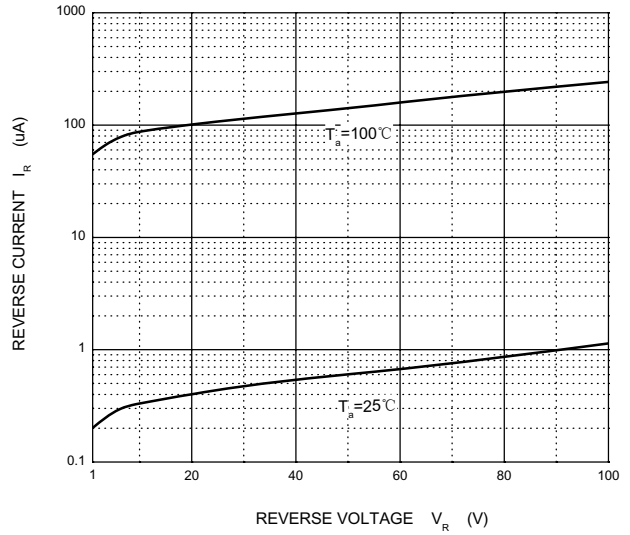
SCHOTTKY BARRIER DIODE

**Typical Characteristics**

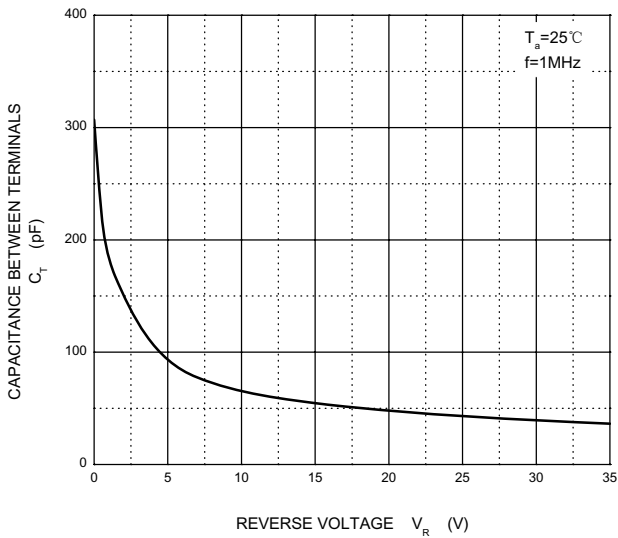
**Forward Characteristics**



**Reverse Characteristics**



**Capacitance Characteristics**



**Power Derating Curve**

