MS10180 to MS10200

Schottky Barrier Rectifiers

PRV : 180 - 200 Volts
Io : 10 Ampere

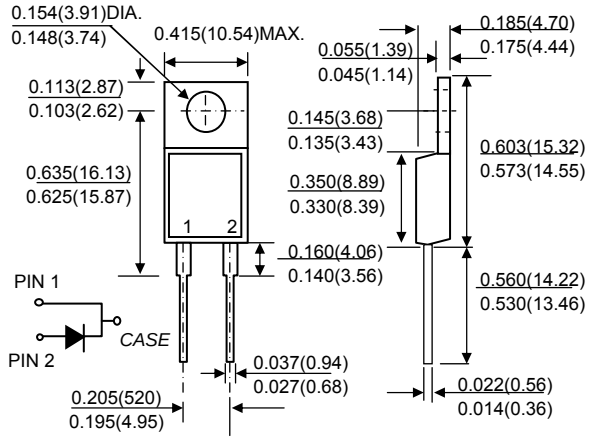
FEATURES :

* Guard ring for reverse protection
* Low power loss
* High efficiency
* High surge capacity
* Pb / RoHS Free

MECHANICAL DATA :

* Case : JEDEC TO-220AC molded plastic body
* Terminals: Plated leads, solderable per MIL-STD-750 Method 2026
* Polarity: As marked
* Mounting Position: Any
* Weight : 2.24 grams (Approximately)

TO-220AC



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Ta =25°C unless otherwise noted.)

PARAMETER	SYMBOL	MS10180	MS10200	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	180	200	V
Maximum Average Forward Rectified Current at T_C = 155 °C	$I_{F(AV)}$	10		A
Maximum Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	225		A
Maximum Instantaneous Forward Voltage (1) at I_F = 10 A, T_J =25 °C	V_F	0.88		V
I_F = 10 A, T_J =125 °C		0.73		
Maximum Reverse Current Per Leg at Peak Reverse Voltage (1) T_J = 25°C	I_R	100		µA
T_J = 125 °C	$I_{R(H)}$	200		µA
Typical Junction Capacitance (V_R = 5 V, T_J = 25 °C)	C_J	190		pF
Typical Thermal Resistance, Junction to Case	$R_{\theta JC}$	2.4		°C/W
Operating Junction Temperature Range	T_J	- 55 to + 175		°C
Storage Temperature Range	T_{STG}	- 55 to + 175		°C

Note :

(1) Pulse Test: Pulse Width 300 µs, Duty Cycle 2%.

RATING AND CHARACTERISTIC CURVES (MS10180~ MS10200)

FIG.1 - FORWARD CURRENT DERATING

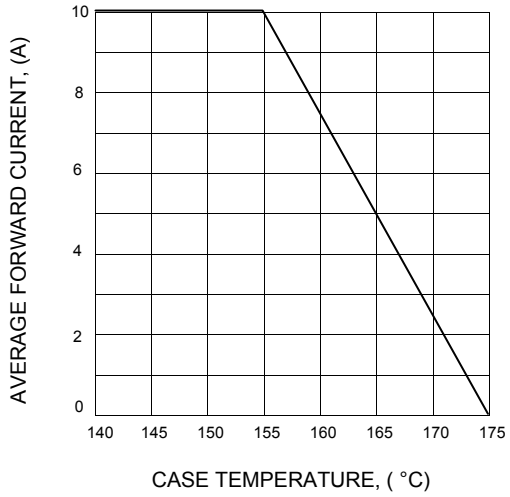


FIG.2 - TYPICAL JUNCTION CAPACITANCE

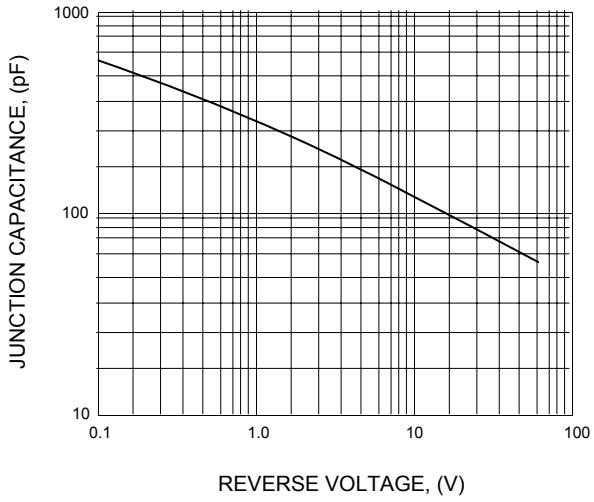


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

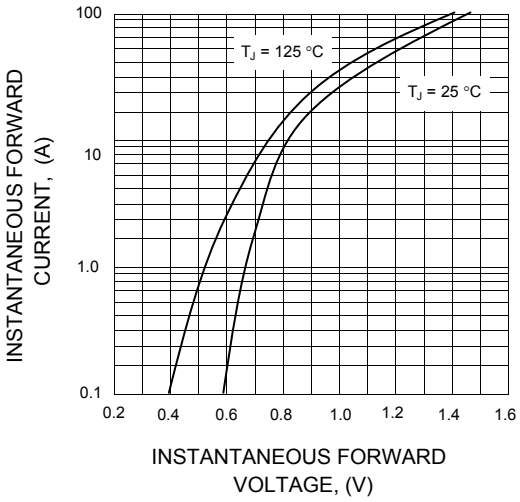


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS