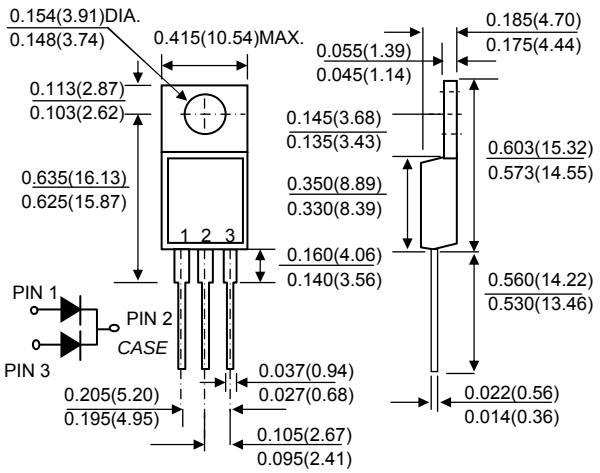
MBR10H150CT

Dual Schottky Barrier Rectifier

PRV : 150 Volts
Io : 10 Ampere

TO-220AB



Dimensions in inches and (millimeters)

FEATURES :

* Guarding for overvoltage protection
* High frequency operation
* Low forward voltage drop
* Low power loss, high efficiency
* RoHS Compliant

MECHANICAL DATA :

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

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

PARAMETER		SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	150	V
Working Peak Reverse Voltage		V_{RWM}	150	V
Maximum DC Blocking Voltage		V_{DC}	150	V
Maximum Average Forward Rectified Current at T_C = 150 °C	Total device	$I_{F(AV)}$	10	A
	Per Leg		5	
Maximum Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load Per Leg		I_{FSM}	160	A
Maximum Instantaneous Forward Voltage Per Leg (1)	at I_F = 5 A, T_J =25 °C	V_F	0.88	V
	I_F = 5 A, T_J =125 °C		0.72	
	I_F = 10 A, T_J =25 °C		0.96	
	I_F = 10 A, T_J =125 °C		0.80	
Maximum Reverse Current Per Leg	T_J = 25°C	I_R	5.0	µA
at Working Peak Reverse Voltage (1)	T_J = 125 °C	$I_{R(H)}$	1.0	mA
Typical Thermal Resistance, Junction to Case, Per Leg		$R_{\theta JC}$	2.4	°C/W
Operating Junction and Storage Temperature Range		T_J,T_{STG}	- 65 to + 175	°C

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

RATING AND CHARACTERISTIC CURVES (MBR10H150CT)

FIG.1 - FORWARD DERATING CURVE

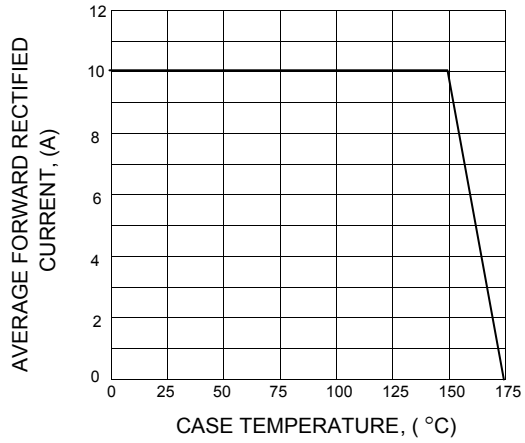


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

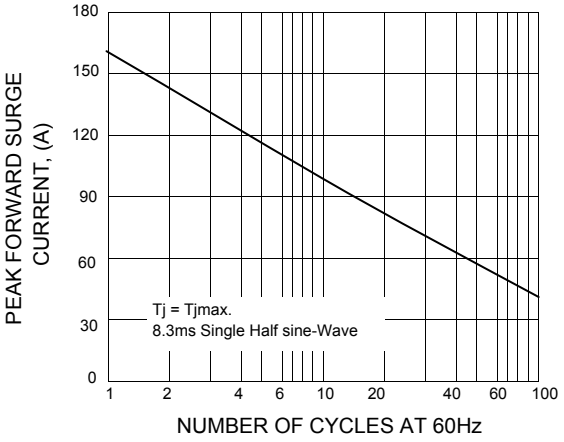


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER LEG

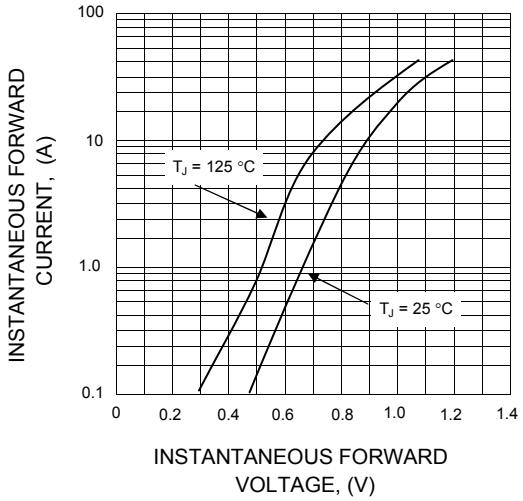


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS PER LEG