MBR10150CT THRU MBR1020CT

Reverse Voltage - 150 to 200 Volts Forward Current - 10.0 Ampere

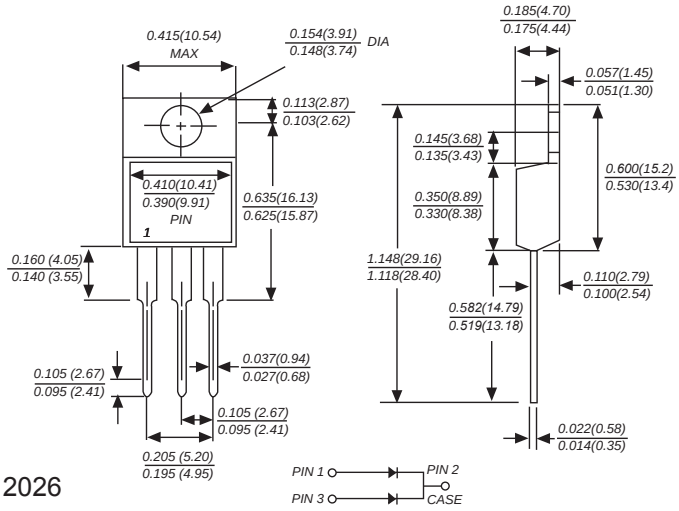
SCHOTTKY BARRIER RECTIFIER

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C,0.25"(6.35mm) from case for 10 seconds

TO-220AB

RoHS COMPLIANT



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC TO-220AB Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body
Mounting Position : Any
Weight : 0.060 ounce, 1.67 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unlss otherwise specified.

Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter / Marking Code	SYMBOLS	MDD MBR 10150CT	MDD MBR 10200CT	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	150	200	V
Maximum RMS voltage	V_{RMS}	135	140	V
Maximum DC blocking voltage	V_{DC}	150	200	V
Maximum average forward rectified current (see fig.1)	$I_{(AV)}$	10.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	125		A
Maximum instantaneous forward voltage at 10.0A	V_F	0.95		V
Maximum DC reverse current at rated DC blocking voltage T_A=25℃	I_R	0.1		mA
Maximum DC reverse current at rated DC blocking voltage T_A=100℃	I_R	15.0		mA
Typical thermal resistance (NOTE 2)	$R_{\theta JC}$	1.5		℃/W
Operating junction temperature range	T_J	-50 to +150		℃
storage temperature range	T_{STG}	-50 to +150		℃

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2.Thermal resistance from junction to case.

Ratings And Characteristic Curves

FIG.1 TYPICAL FORWARD CHARACTERISTICS

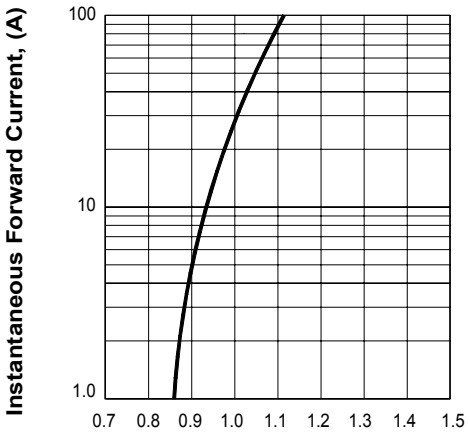


FIG.2 FORWARD DERATING CURVE

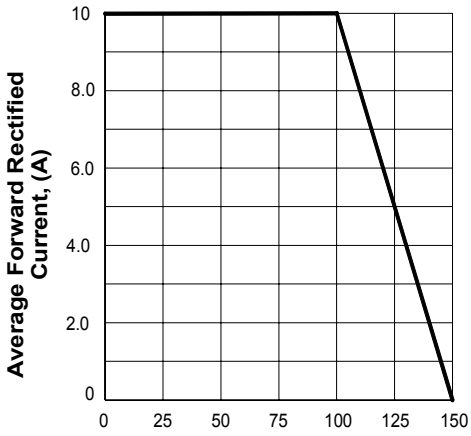
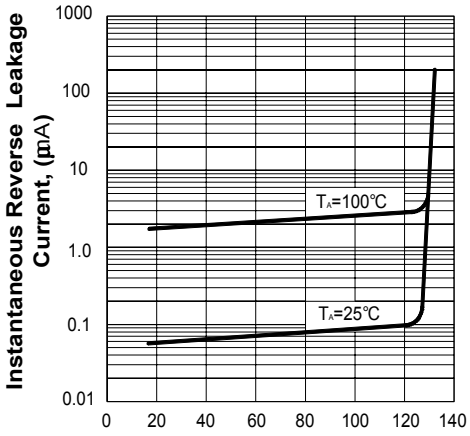
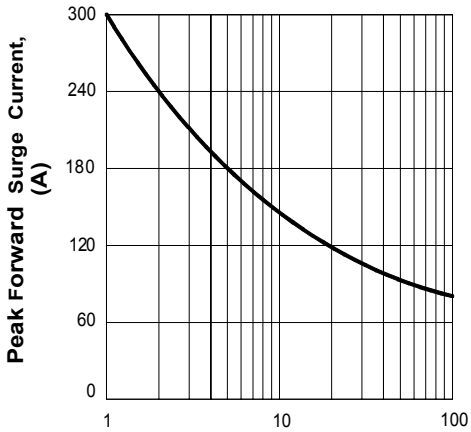


FIG.3 TYPICAL REVERSE CHARACTERISTICS





The curve above is for reference only.