



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/10 seconds at terminals

Mechanical Data

Case : Molded plastic body

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	MBR40100PT	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	100	V
Working Peak Reverse Voltage	V_{RWM}	100	V
Maximum DC blocking voltage	V_{DC}	100	V
Maximum average forward rectified current at $T_c=25^\circ C$ per device per diode	$I_{(O)}$	40.0 20.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	275.0	A
Maximum instantaneous forward voltage per diode at 20.0A	V_F	0.87	V
Maximum DC reverse current $T_A = 25^\circ C$ at rated DC blocking voltage $T_A = 125^\circ C$	I_R	0.01 5	mA
Typical thermal resistance	$R_{\theta JC}$	1.9	$^\circ C/W$
Operating junction temperature range	T_J	175	$^\circ C$
Storage temperature range	T_{STG}	-40 to +150	$^\circ C$

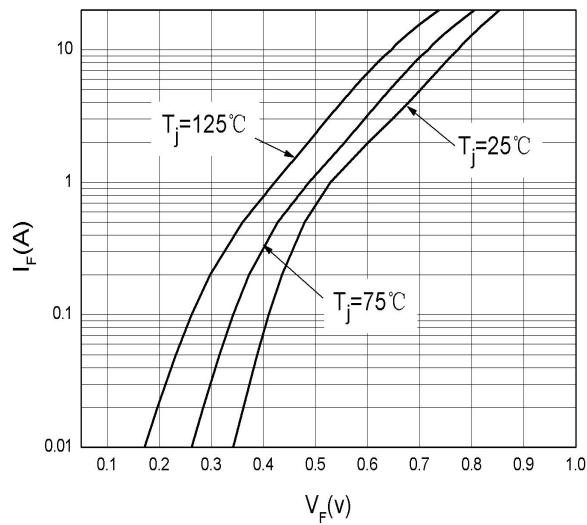


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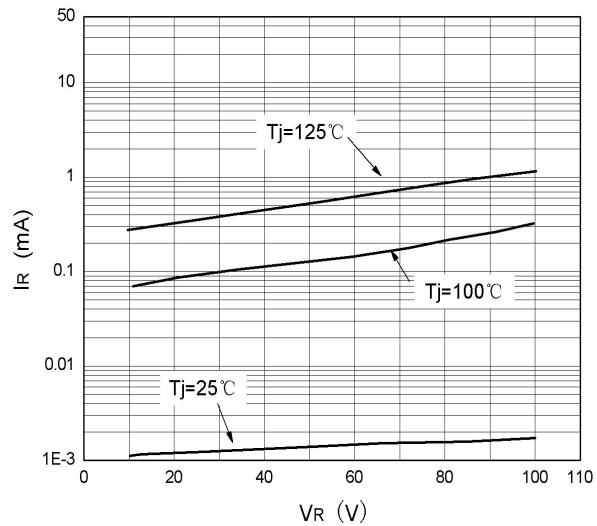
Schottky Barrier Rectifiers

Ratings And Characteristic Curves

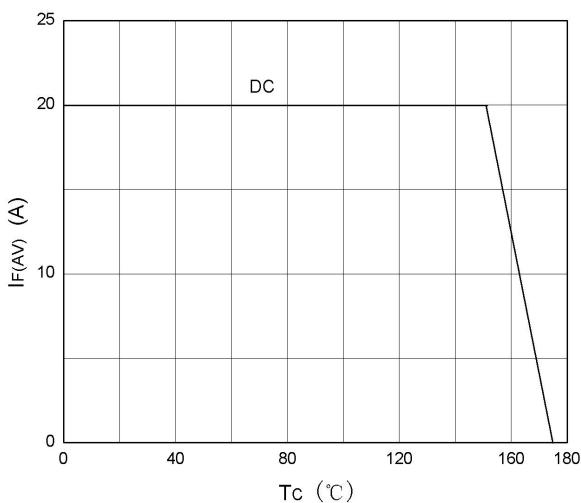
I_F VS V_F



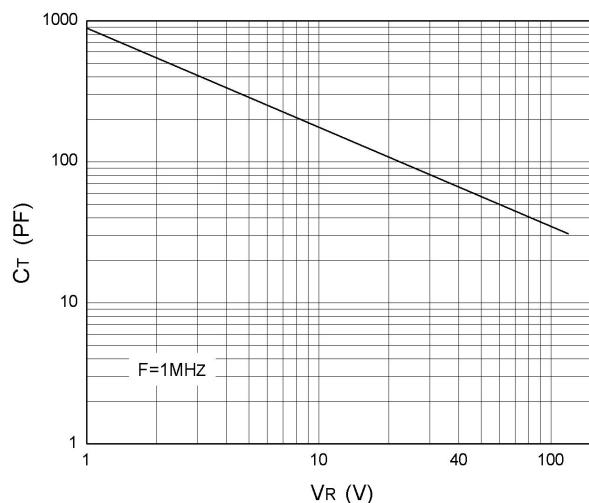
I_R VS V_R



$I_{F(AV)}$ VS T_c



C_T VS V_R





MBR40100PT
Schottky Barrier Rectifiers

TO-247S

