



# MBR40100PT

## Schottky Barrier Rectifiers

### 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 $T_c=25^\circ\text{C}$ 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 at rated DC blocking voltage $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$	$I_R$	0.01 5	mA
Typical thermal resistance	$R_{\theta JC}$	1.9	$^\circ\text{C/W}$
Operating junction temperature range	$T_J$	175	$^\circ\text{C}$
Storage temperature range	$T_{STG}$	-40 to +150	$^\circ\text{C}$

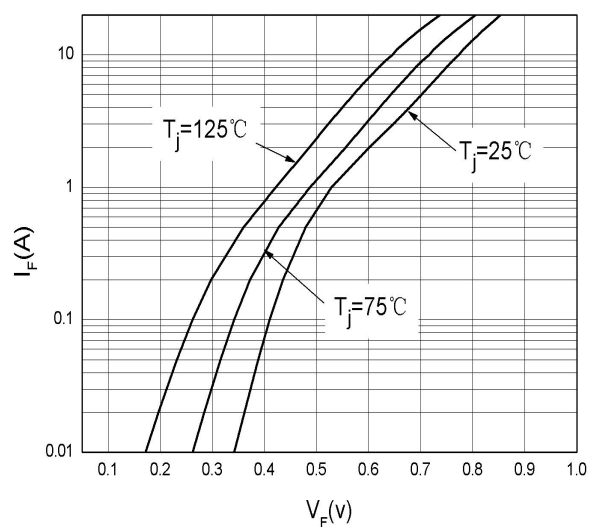


# MBR40100PT

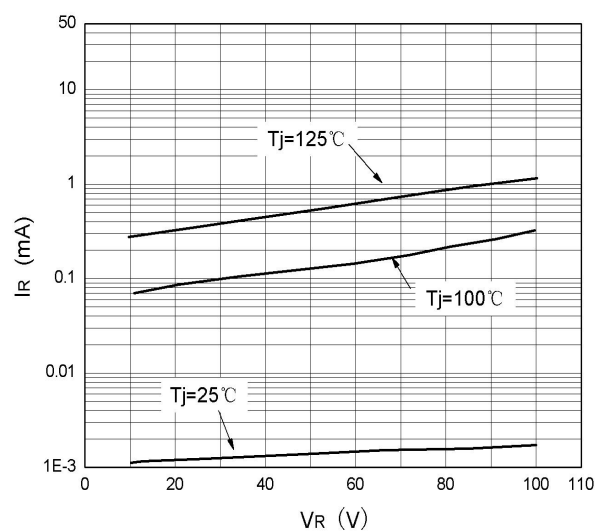
## Schottky Barrier Rectifiers

### Ratings And Characteristic Curves

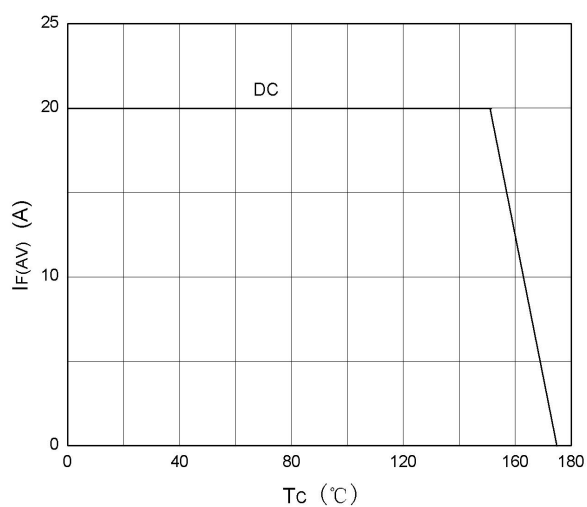
$I_F$  VS  $V_F$



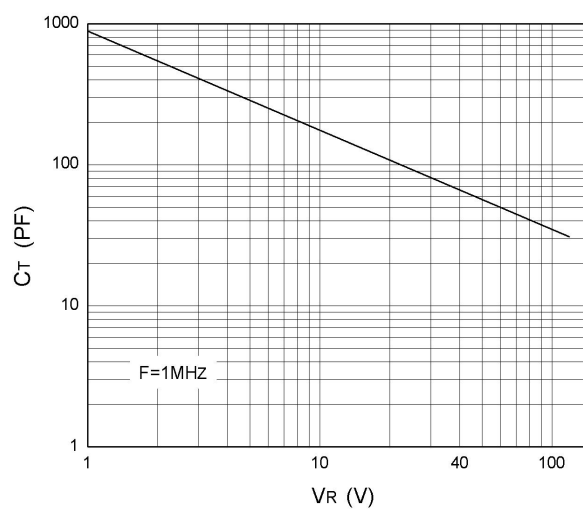
$I_R$  VS  $V_R$



$I_{F(AV)}$  VS  $T_C$



$C_T$  VS  $V_R$





T0-247

单位: mm

