

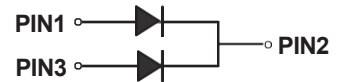
SCHOTTKY BARRIER RECTIFIERS

Features

- ◆ High current capability
- ◆ Low forward voltage drop
- ◆ Low power loss, high efficiency
- ◆ High surge capability
- ◆ High temperature soldering guaranteed
- ◆ Mounting position: any

TO-220AB

PIN



208

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

MCHARACTERISTICS	SYMBOL	MBR20U100DCT	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	100	V
Maximum RMS voltage	V_{RMS}	70	V
Maximum DC blocking voltage	V_{DC}	100	V
Maximum average forward rectified current per leg per device	I_{AV}	10 20	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) per leg	I_{FSM}	200	A
Maximum instantaneous forward voltage at 10A(per leg)	V_F	0.72	V
Maximum DC reverse current $T_A=25^{\circ}C$ at rated DC blocking voltage $T_A=125^{\circ}C$	I_R	0.1 20	mA
Typical Junction Capacitance(note1)	C_J	600	pF
Maximum Thermal Resistance Junction To Case	$R_{\theta JC}$	2	$^{\circ}C/W$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150	$^{\circ}C$

Note:1.Measured at 1 MHz and applied reverse voltage of 4 V D.C

Ratings And Characteristic Curves

Fig.1 Typical Forward Current Derating Curve

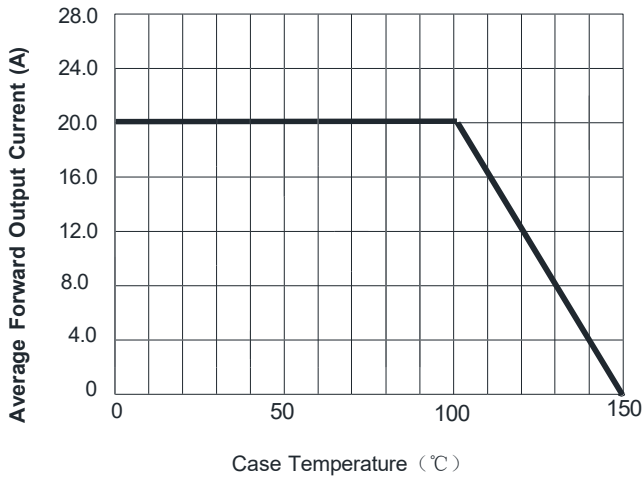


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

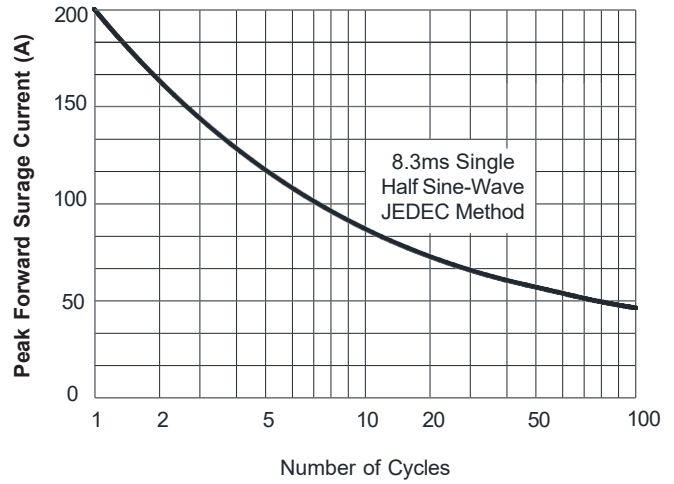


Fig.3 Typical Forward Characteristic(per leg)

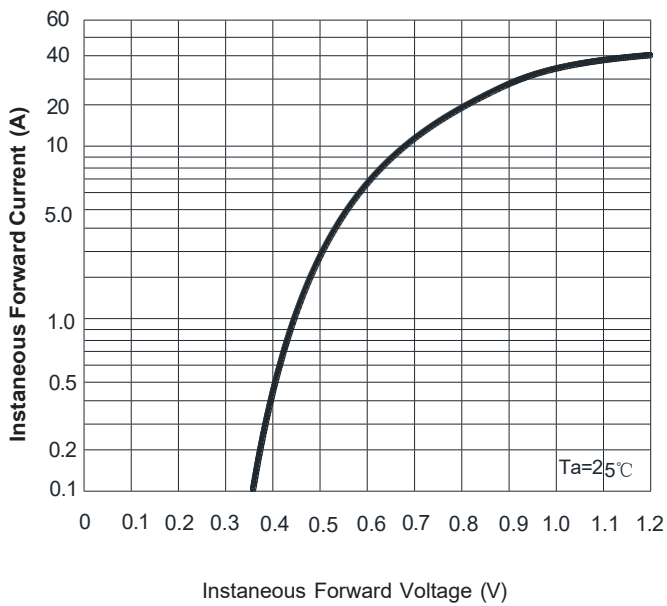
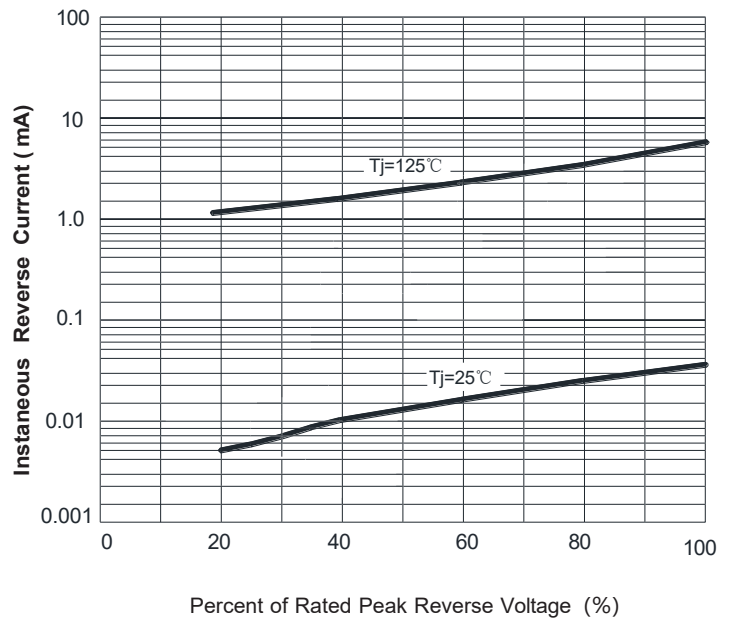


Fig.2 Typical Reverse Characteristics



The curve above is for reference only.