SCHOTTKY BARRIER RECTIFIER

Features

TO-247-3L

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

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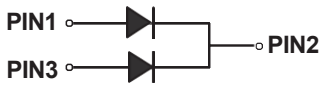

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Maximum Ratings And Electrical Characteristics

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	MBRW 3045CT	MBRW 3060CT	MBRW 30100CT	MBRW 30150CT	MBRW 30200CT	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	45	60	100	150	200	V
Maximum RMS voltage	V_{RMS}	32	42	70	135	140	V
Maximum DC blocking voltage	V_{DC}	45	60	100	150	200	V
Maximum average forward rectified current (see fig.1)	$I_{(AV)}$	30.0					A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	250			200		A
Maximum instantaneous forward voltage at 15.0A	V_F	0.60	0.75	0.85	0.95		V
Maximum DC reverse current at rated DC blocking voltage T_A=25℃	I_R	0.1					mA
T_A=100℃		20.0	30.0	10.0			
Typical thermal resistance (NOTE 2)	$R_{\theta JC}$	2.0					℃/W
Operating junction temperature range	T_J	-55 to +150					℃
storage temperature range	T_{STG}	-55 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 Current Derating Curve

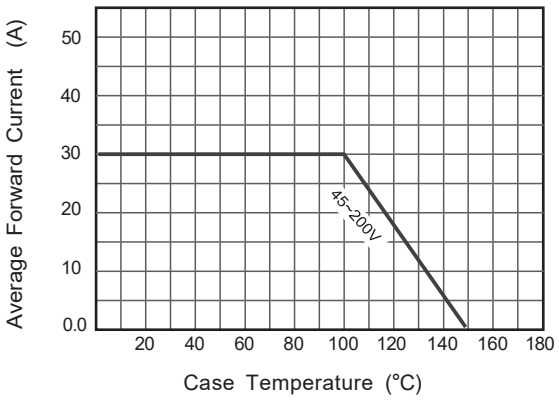


Fig.2 Typical Reverse Characteristics

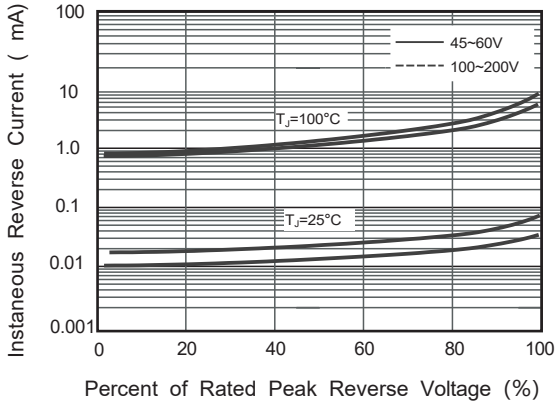


Fig.3 Typical Forward Characteristic(per leg)

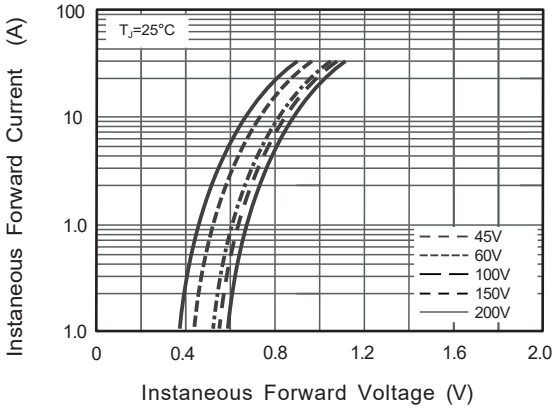
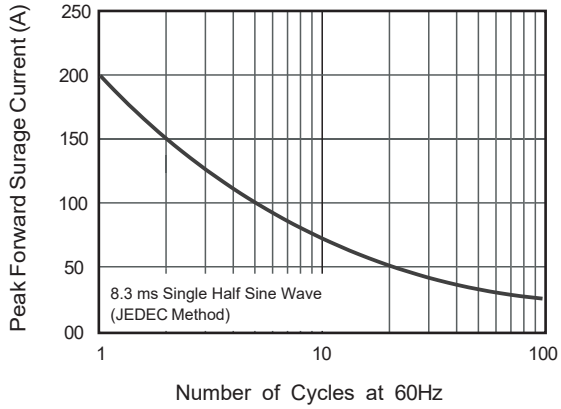


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



The curve above is for reference only.