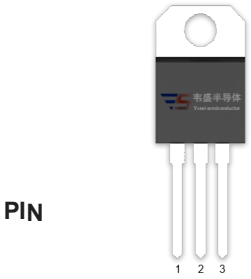
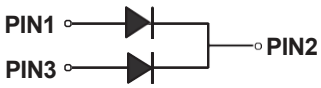
SCHOTTKY BARRIER RECTIFIER

Features

- High surge capacity.
  For use in low voltage, high frequency inverters,free
- wheeling,and polarity protection applications.
  Metal silicon junction,majority carrier conduction.
- High current capability,low forward voltage drop.
- Guard ring for over voltage protection.

ITO-220AB





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	MBRF 1045CT	MBRF 1060CT	MBRF 10100CT	MBRF 10150CT	MBRF 10200CT	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)	$I_{(AV)}$	10.0					A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150			125		A
Maximum instantaneous forward voltage at 5.0A	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	1.0			0.1		mA
T_A=100℃		15.0	50.0		15.0		
Typical thermal resistance (NOTE 2)	$R_{\theta JC}$	2.0			1.5		℃/W
Operating junction temperature range	T_J	-55 to +150					℃
storage temperature range	T_{STG}	-55 to +150					℃

Note:2.Thermal resistance from junction to case.

Ratings And Characteristic Curves

Fig.1 Typical Forward Current Derating Curve

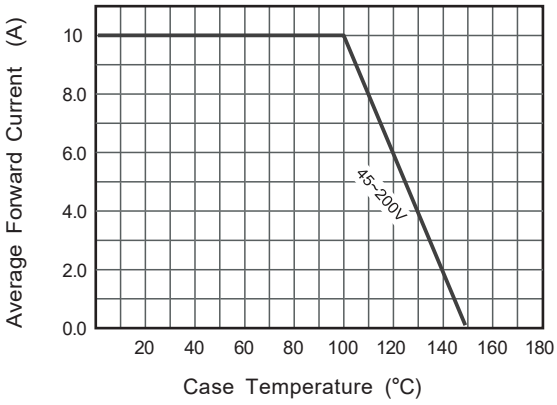


Fig.2 Typical Reverse Characteristics

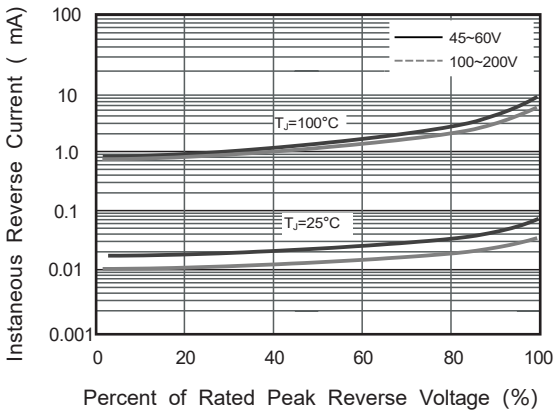


Fig.3 Typical Forward Characteristic(per leg)

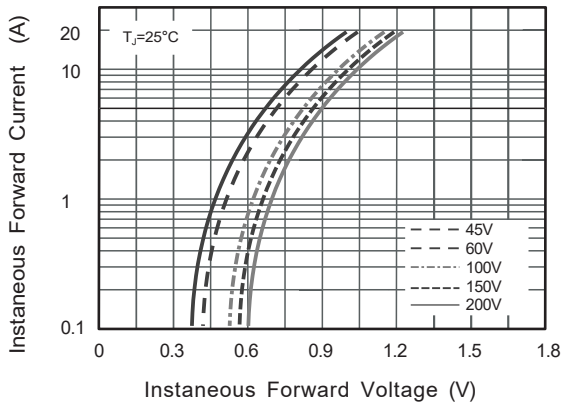
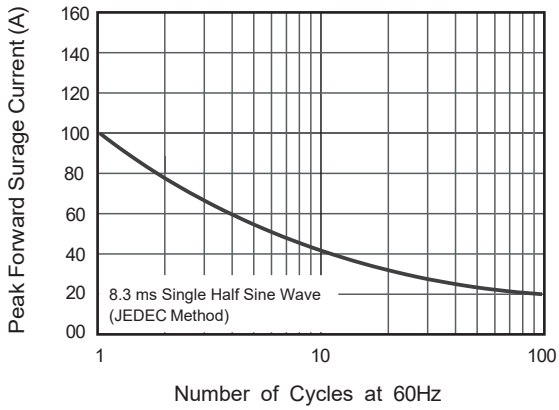


Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



The curve above is for reference only.