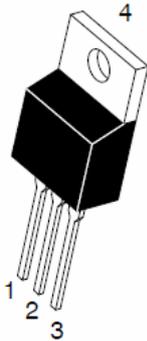
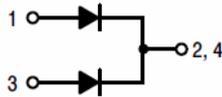
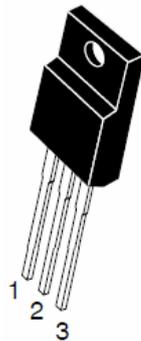


SCHOTTKY BARRIER RECTIFIER

**TO-220AB
MBR40100CT**



**ITO-220AB
MBR40100CTF**



Features

- Low forward voltage drop
- Low power losses
- High efficiency operation
- Lead Free Finish, RoHS Compliant

Applications

- DC/DC Converters
- AC/DC Adaptors
- Switching Power Supplies
- Freewheeling Diodes

Maximum ratings and electrical characteristics (T_J = 25°C unless otherwise noted)

Parameter		Symbol	Limit		Unit
Maximum repetitive peak reverse voltage		VRRM	100		V
Maximum average forward rectified current	per device	IF(AV)	40		A
	per diode		20		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode		IFSM	200		A
Operating junction and storage temperature range		T _J , T _{STG}	-55 to +150		°C
Typical thermal resistance per leg	TO-220AB	R _{θJC}	2		°C/W
	ITO-220AB		4		
Instantaneous forward voltage per diode			TYP.	MAX.	V
	IF=3A	T _J =25°C	0.56	0.62	
	IF=3A	T _J =125°C	0.50	-	
	IF=20A	T _J =25°C	0.78	0.85	
Instantaneous reverse current per diode at rated reverse voltage			1	100	μA
			1	-	mA

Notes:

(1) Pulse test: 300 μs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≦ 40 ms

RATINGS AND CHARACTERISTICS CURVES (TA = 25 °C unless otherwise noted)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

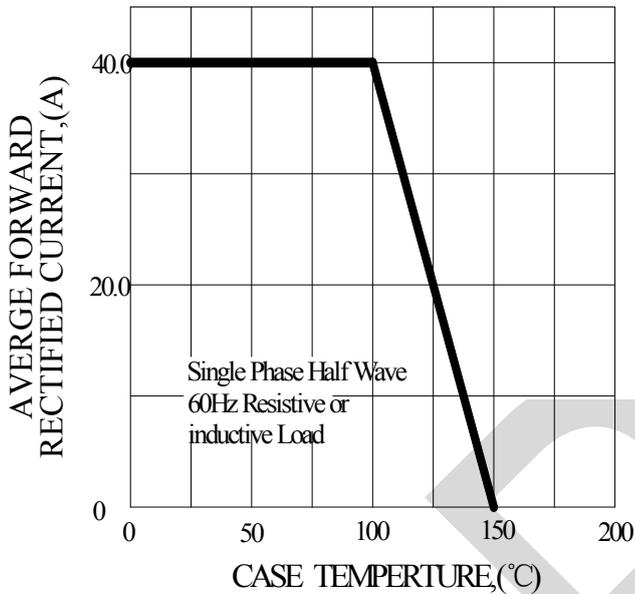


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

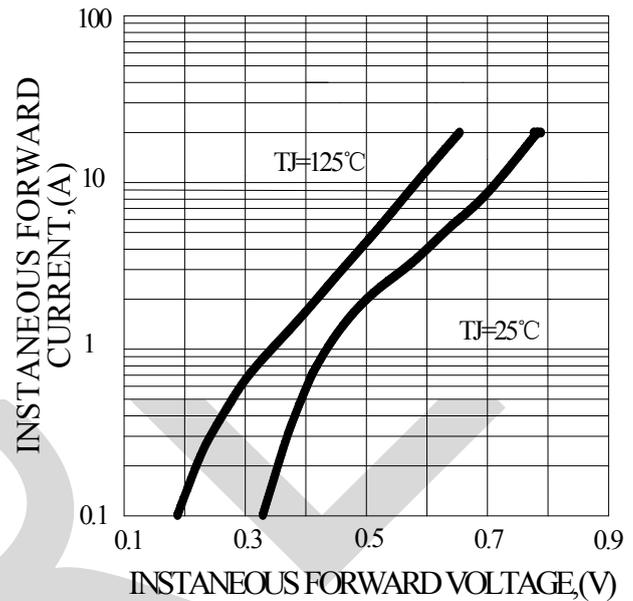


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

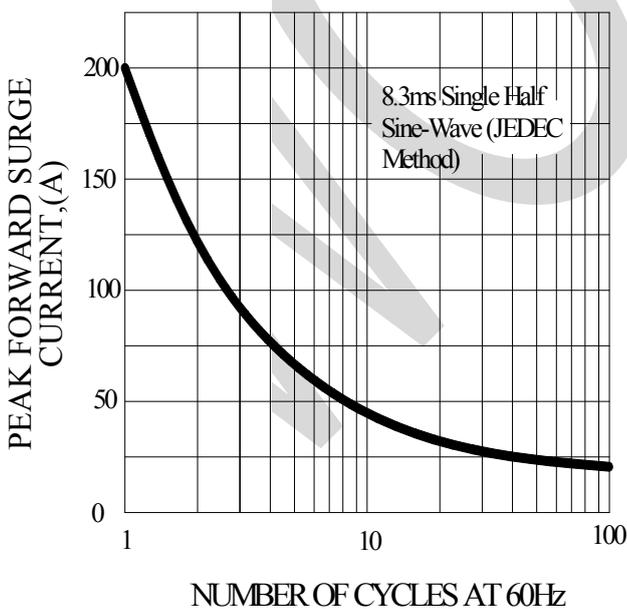
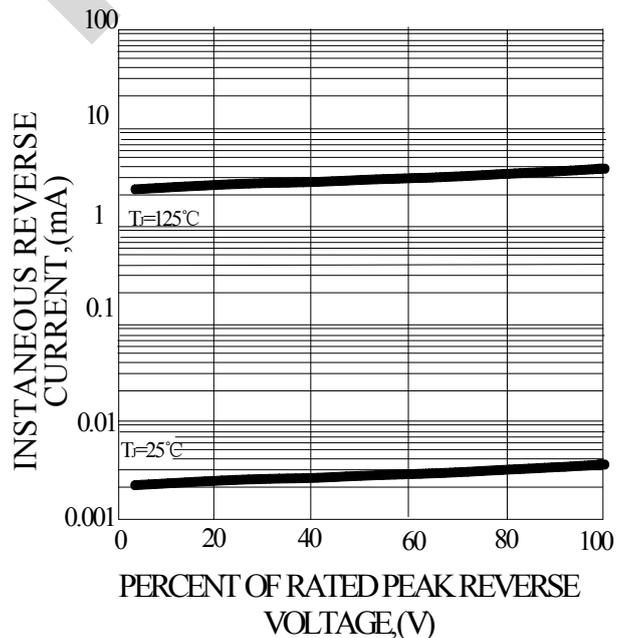


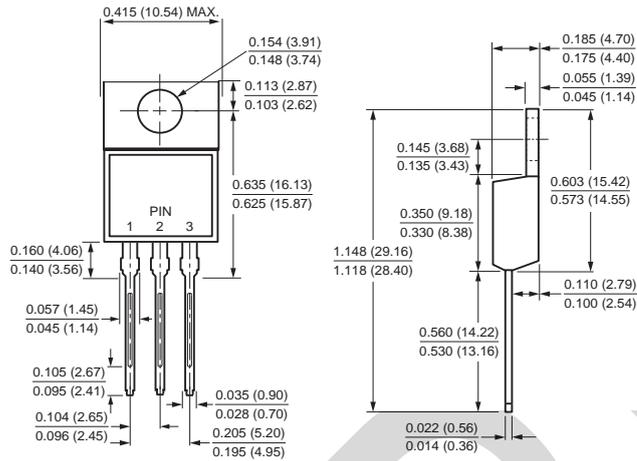
FIG.4-TYPICAL REVERSE CHARACTERISTICS



PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)

TO-220AB



ITO-220AB

