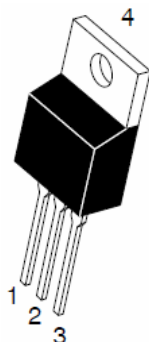
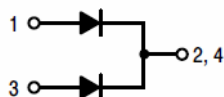
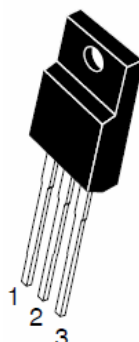


SCHOTTKY BARRIER RECTIFIER

TO-220AB
MBR10100CT



ITO-220AB
MBR10100CTF



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)	10		A
	per diode			5		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode			IFSM	150		A
Operating junction and storage temperature range			TJ, TSTG	-50 to +150		°C
Typical thermal resistance per leg	TO-220AB		RθJC	2		°C/W
	ITO-220AB			4		°C/W
Instantaneous forward voltage per diode			VF(1)	TYP.	MAX.	V
	IF=2A	TJ=25°C		0.68	0.75	
	IF=2A	TJ=125°C		0.58	-	
	IF=5A	TJ=25°C		0.76	0.85	
	IF=5A	TJ=125°C		0.69	-	
Instantaneous reverse current per diode at rated reverse voltage		TJ=25°C	IR(2)	5	100	uA
		TJ=125°C		5	-	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

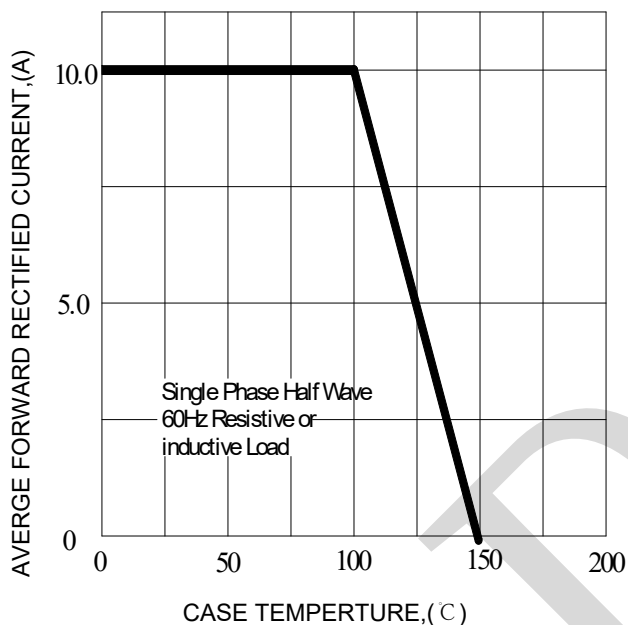


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

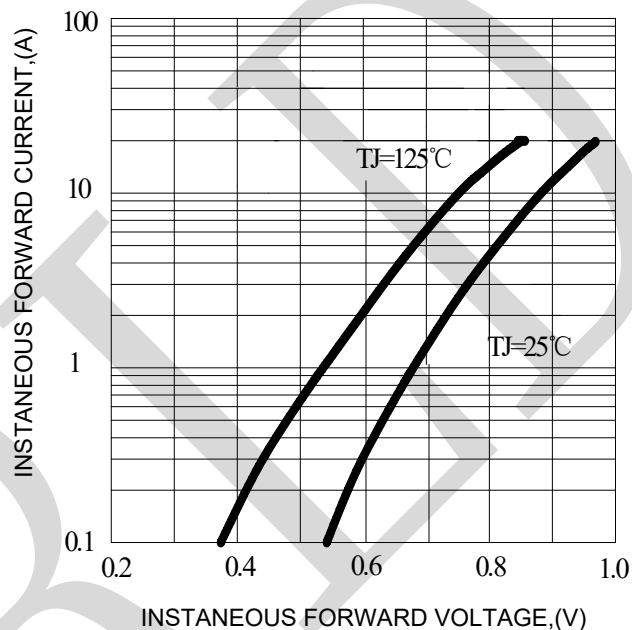


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

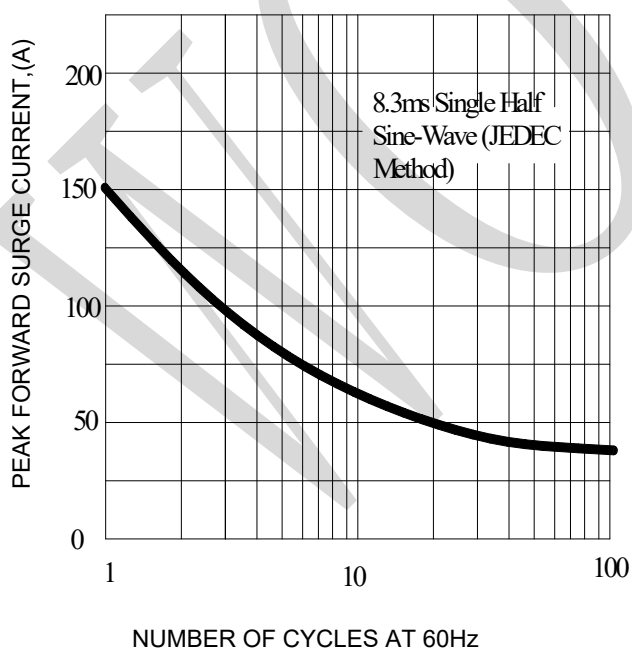
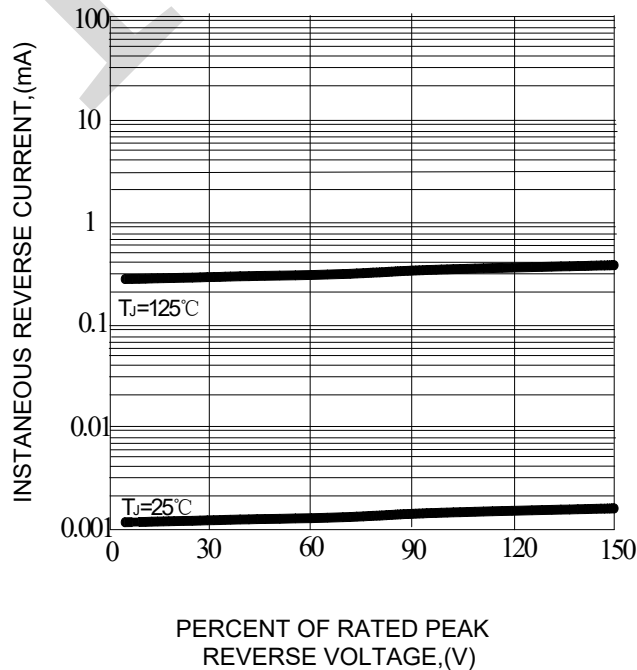


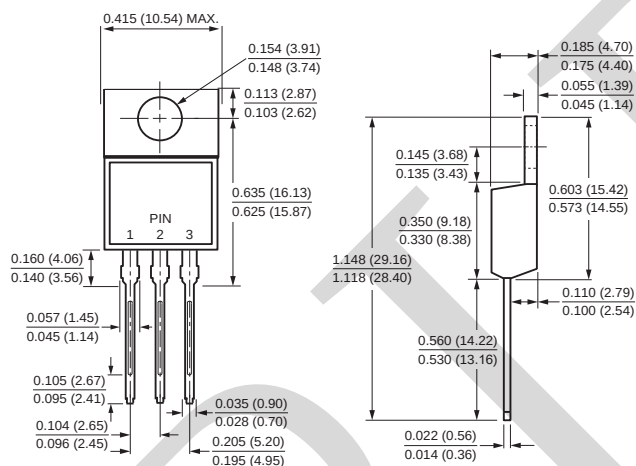
FIG.4-TYPICAL REVERSE CHARACTERISTICS



PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)

TO-220AB



ITO-220AB

