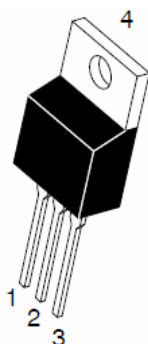
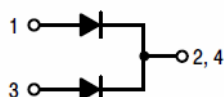
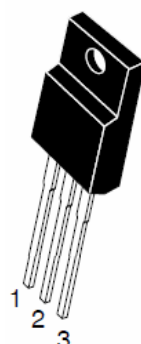


SCHOTTKY BARRIER RECTIFIER

TO-220AB
MBR3045CT



ITO-220AB
MBR3045CTF



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	45		V
Maximum average forward rectified current	per device		IF(AV)	30		A
	per diode			15		
Peak forward surge current 8.3 ms single half sine- wave superimposed on rated load per diode			IFSM	300		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=5A	TJ=25°C		0.48	0.53	
	IF=5A	TJ=125°C		0.41	-	
	IF=15A	TJ=25°C		0.63	0.69	
	IF=15A	TJ=125°C		0.58	-	
Instantaneous reverse current per diode at rated reverse voltage		TJ=25°C	IR(2)	8	50	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 MAXIMUM FORWARD CURRENT DERATING CURVE

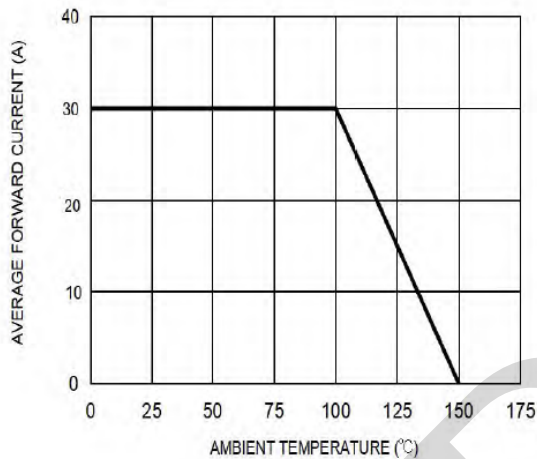


FIG. 2 MAXIMUM NON-REPETITIVE
FORWARD SURGE CURRENT PER LEG

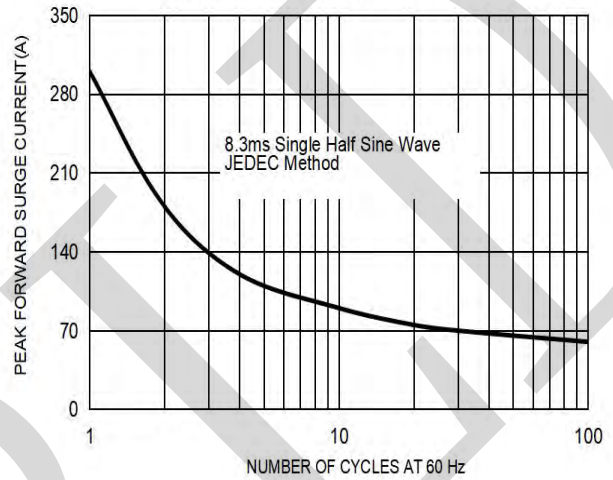


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER
LEG

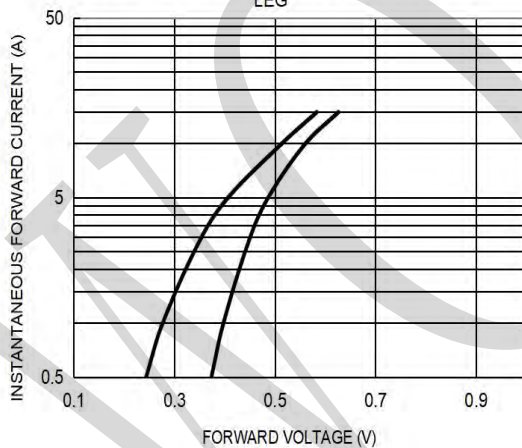
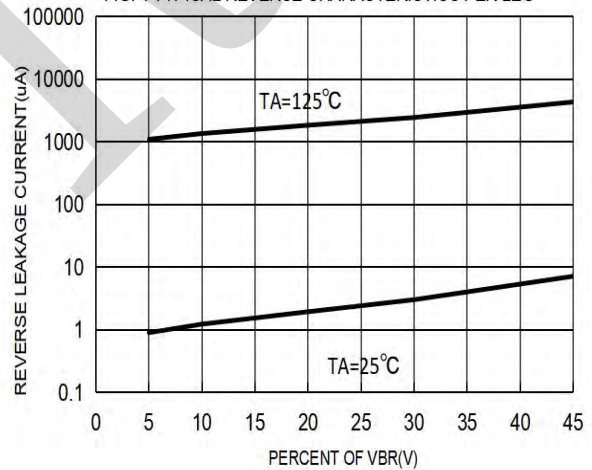


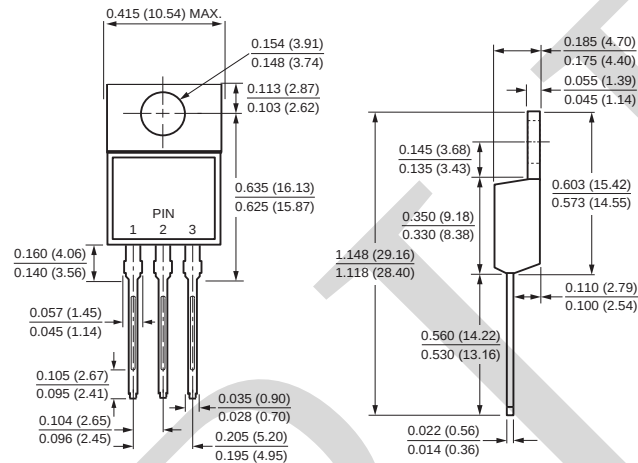
FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



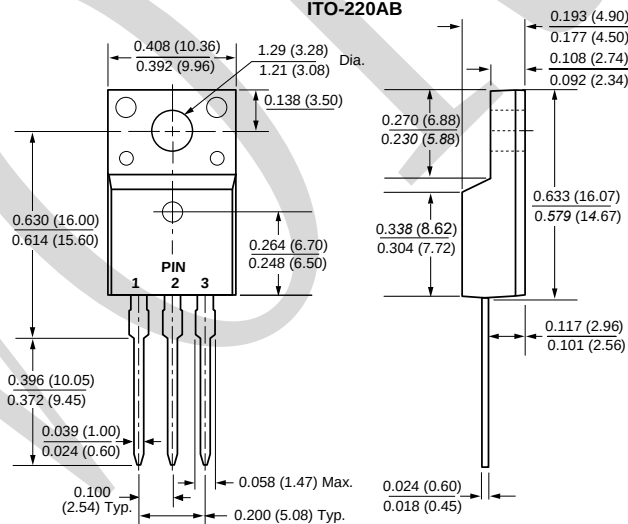
PACKAGE OUTLINE DIMENSIONS

Note:unit In(mm)

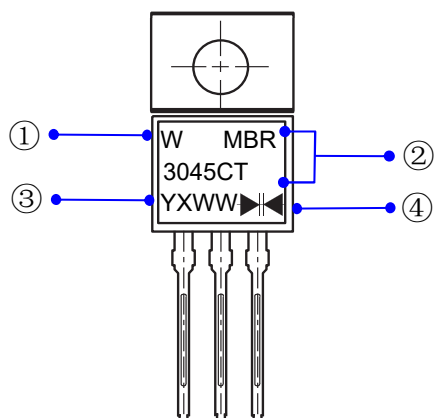
TO-220AB



ITO-220AB

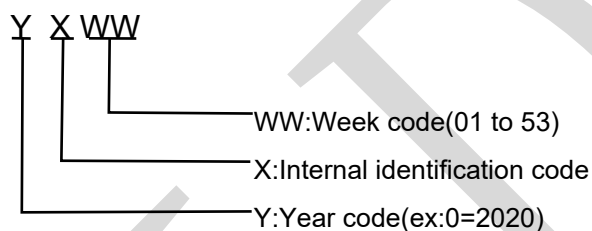


Marking Information



- ①W : Company's trademark
②Product model : MBR3045CT or MBR3045CTF

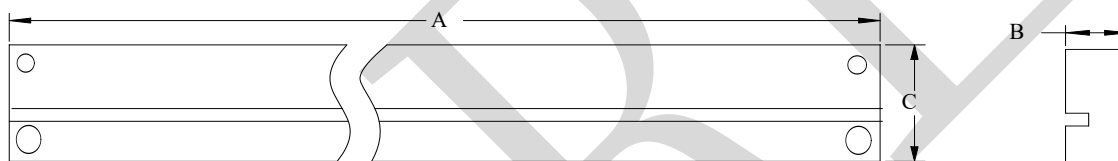
③PDC information:



④  Double wafer

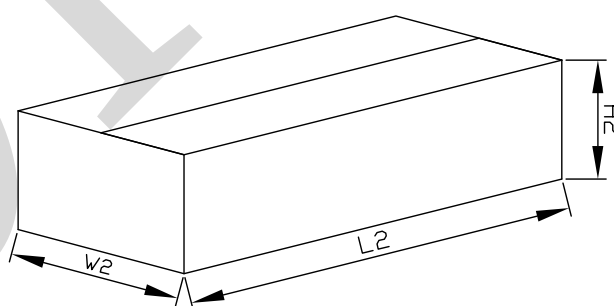
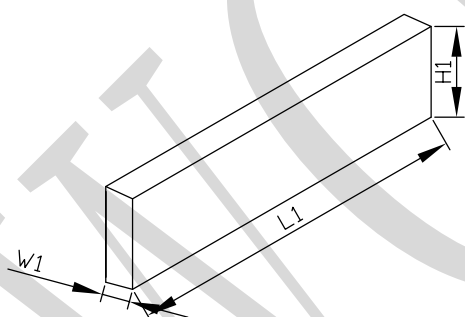
Packaging Information

1.Tube Dimensions



2.Inside Box

3.Outside Box



Packaging Information

NO	UNIT	Tube Dimensions			Inside Box			Outside Box		
Size	mm	A	B	C	L1	W1	H1	L2	W2	H2
		530	7	33	570	46	150	590	260	180
QTY	PCS	50PCS/Tube			Smallest package,1000PCS, 20 tube in total			5,000PCS/carton,5 boxes in total		
Note	Tolerance ≤20mm,±3mm; 21-100mm,±5mm; 101-500mm,±10mm									