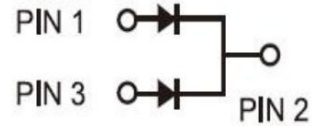




Schottky Diodes
Reverse Voltage-40to200v
Forward current-30A

Features

- Schottky chip
- Ideal for surface mounted applications
- Low forward voltage drop, Low power loss, high efficiency
- Plastic Case Material has UL Flammability



Mechanical Data

- Package: TO-220AB, TO-220F, TO-263
- Terminals: Tin Plated leads, solderable per Mil-STD-750 Method 2026
- Polarity: As marked
- Molding compound meets UL 94 V-0 flammability rating, ROHS-compliant



TO-220AB

Maximum Ratings (Ta=25°C Unless otherwise)

Type Number	SYMBOL	MBR30100CT	Umit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current at TL = 100 °C	$I_{Q(AV)}$	30.0	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	230.0	A
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		460.0	A
Current squared time @1ms≤t8.3≤ms Tj=25°C, Rating of per diode	I^2t	219.5	A ² S
Maximum Forward Voltage at 30.0A DC	V_{FM}	0.85	V
Maximum Reverse Current TA = 25°C	IR	0.1	mA
at Rated DC Blocking Voltage TA = 100°C		20	mA
Typical Junction Capacitance	CJ	300	pF
Typical Thermal Resistance TO-220AB, TO-260 TO-220F	R _{QJC}	2.0	°C/W
		4.0	
Operating Junction Temperature Range	T _J	-55to+150	°C
Storage Temperature Range	T _{STG}	-55to+150	°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

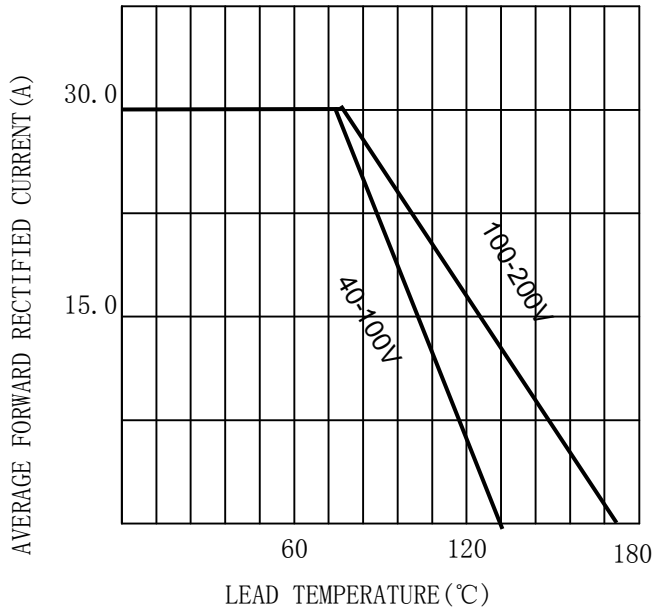


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

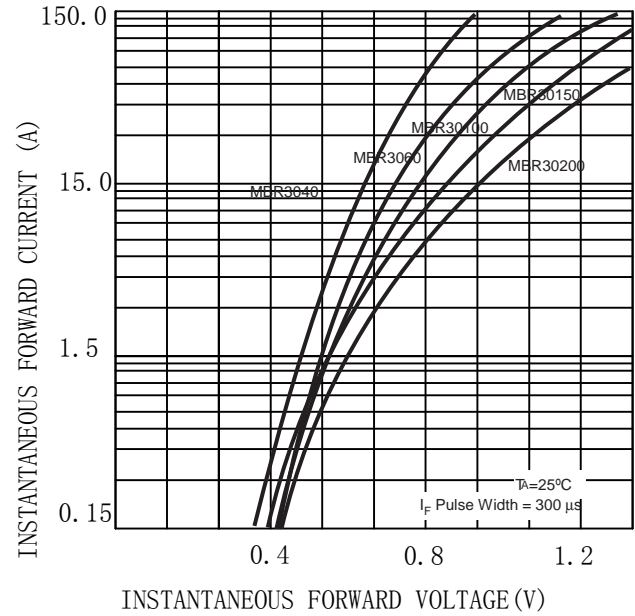


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

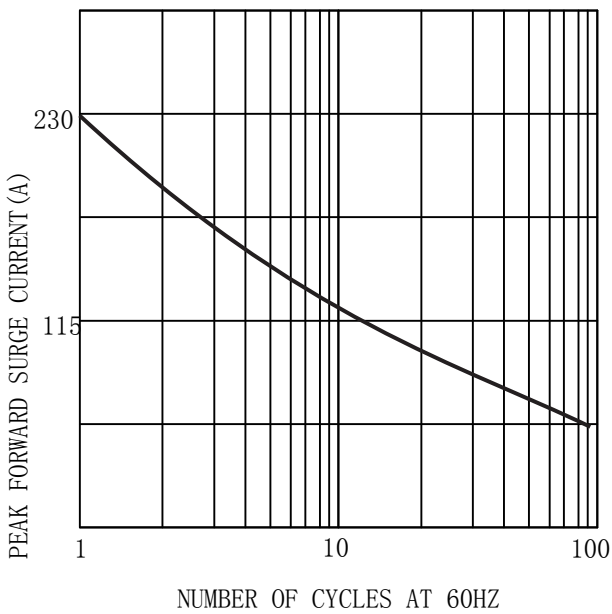
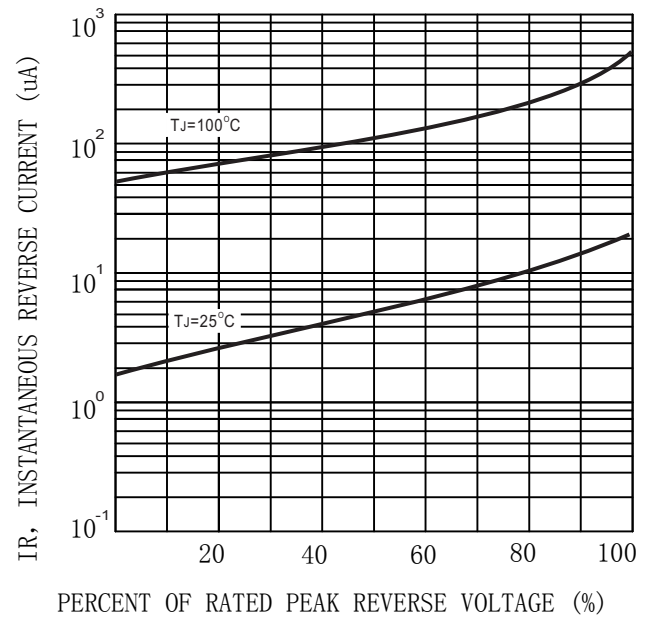


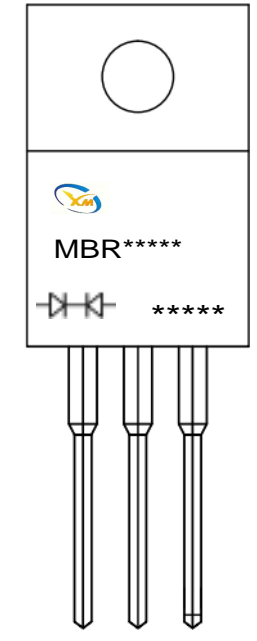
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)







MARKING INFORMATION

TO-220AB/CT



 = Polar line

 = Logo

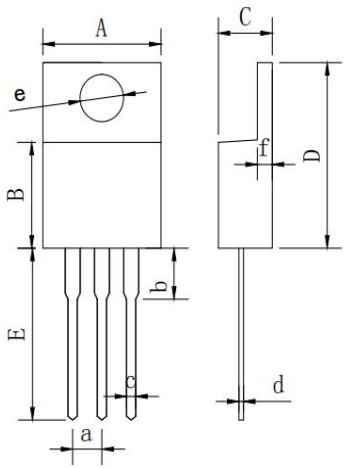
***** = Date Code Marking

MBR***** = Marking Code



Package Outline Dimensions millimeters

TO-220AB/CT					
DIM	INCHES		MM		NOTE
	min	max	min	max	
A	—	0.41	—	10.30	
B	0.33	0.34	8.30	8.70	
C	0.18	0.19	4.50	4.90	
D	0.57	0.60	14.60	15.20	
E	0.53	0.56	13.50	14.10	
a	0.10	0.10	2.45	2.65	
b	—	0.16	—	4.10	
c	0.03	0.04	0.72	0.92	
d	0.01	0.02	0.30	0.50	
e	—	0.15	—	3.80	∅
f	0.05	0.06	1.20	1.40	





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