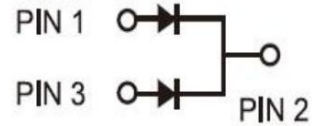




**Schottky Diodes**  
**Reverse Voltage-40to200v**  
**Forward current-30A**

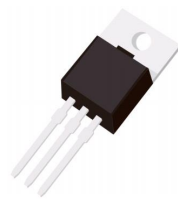
**Features**

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

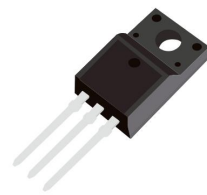


**Mechanical Data**

- 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



TO-220F



TO-263

**Maximum Ratings (Ta=25°C Unless otherwise)**

Type Number	SYMBOL	MBR 3040	MBR 3060	MBR 30100	MBR 30150	MBR 30200	Umit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	60	100	150	200	V
Maximum RMS Voltage	$V_{RMS}$	28	42	70	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	40	60	100	150	200	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 <sup>2</sup> S
Maximum Forward Voltage at 15.0A DC	$V_{FM}$	0.6	0.75	0.85	0.9	0.95	V
Maximum Reverse Current TA = 25°C	IR	0.2		0.1			mA
at Rated DC Blocking Voltage TA = 100°C		50		20			mA
Typical Junction Capacitance	CJ	400		300			pF
Typical Thermal Resistance TO-220AB, TO-260 TO-220F	R <sub>QJC</sub>	2.0					°C/W
		4.0					
Operating Junction Temperature Range	T <sub>J</sub>	-55to+150					°C
Storage Temperature Range	T <sub>STG</sub>	-55to+150					°C



FIG. 1 MAXIMUM AVERAGE FORWARD CURRENT DERATING

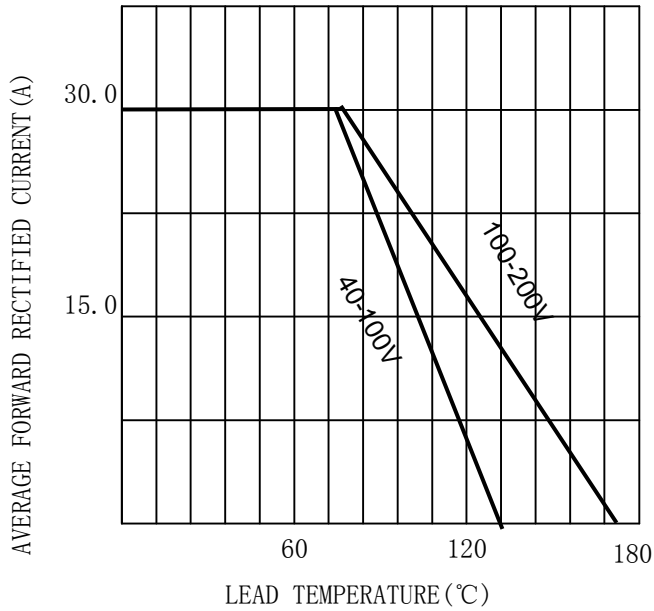


FIG. 2 TYPICAL FORWARD CHARACTERISTICS

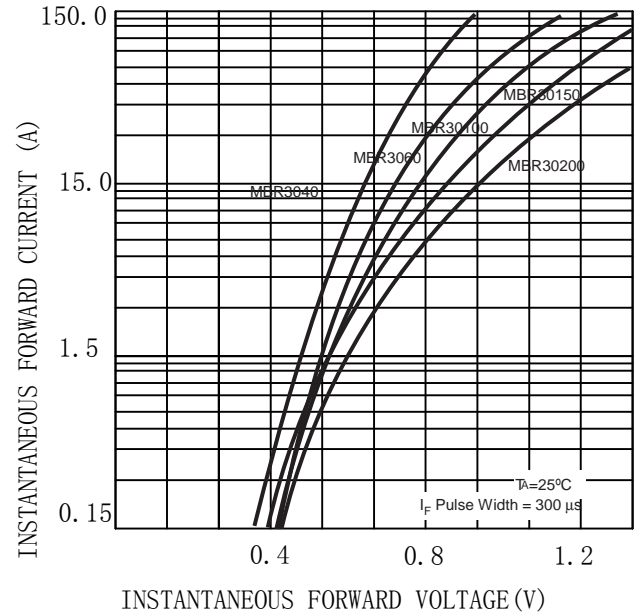


FIG. 3 MAXIMUM NON-REPEITIVE SURGE CURRENT

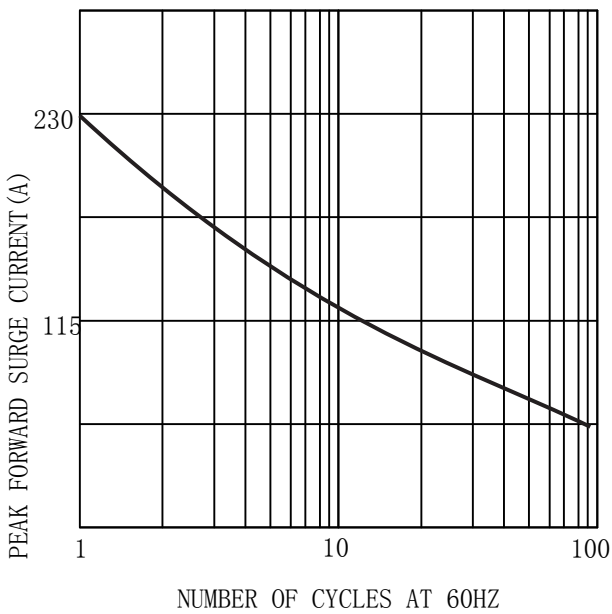
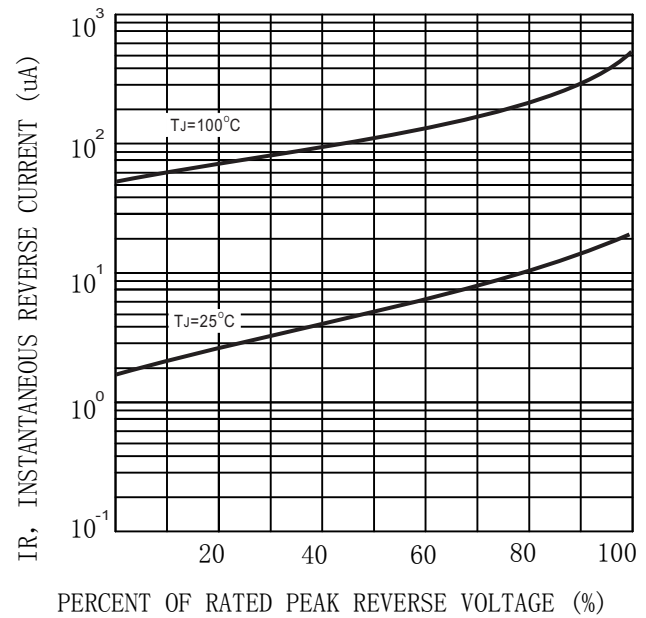


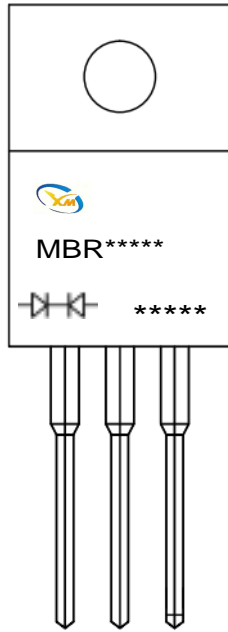
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)





MARKING INFORMATION

TO-220AB/CT



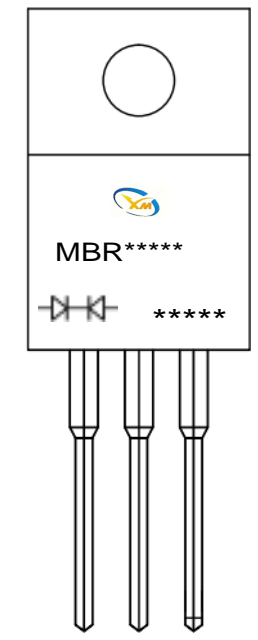
= Polar line

= Logo

\*\*\*\*\* = Date Code Marking

MBR\*\*\*\*\* = Marking Code

TO-220F/FCT



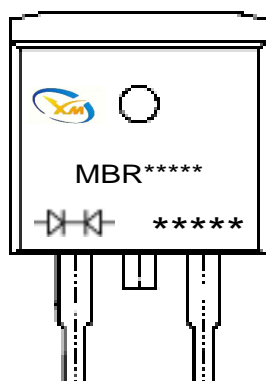
= Polar line

= Logo

\*\*\*\*\* = Date Code Marking

MBR\*\*\*\*\* = Marking Code

TO-263/CS



= 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	

TO-220F/FCT					
DIM	INCHES		MM		NOTE
	min	max	min	max	
A	—	0.41	—	10.30	
B	0.61	0.64	15.60	16.20	
C	0.18	0.19	4.50	4.90	
D	0.26	0.28	6.60	7.00	
E	0.50	0.53	12.80	13.40	
a	0.10	0.10	2.45	2.65	
b	—	0.16	—	4.10	
c	0.03	0.04	0.72	0.92	
d	0.02	0.02	0.40	0.60	
e	—	0.15	—	3.80	∅
f	0.09	0.11	2.40	2.80	

TO-263/CS					
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	0.38	0.39	9.60	10.00	
E	0.21	0.22	5.30	5.70	
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	0.05	0.06	1.20	1.40	



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