

### Schottky Diodes Reverse Voltage-40to200v Forward current-20A

**Features** 

Schottky chip

Ldeal for surface mounted applications

Low forward voltage drop, Low power loss, high efficiency

Plastic Case Material has UL Flammability

#### Mechanical Data

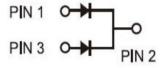
Package: TO-220AB,TO-220F,TO-263 Terminals:Tin Plated leads, solderable per

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 ℃ Unless otherwise

Type Number	SYMBOL	MBR20200CT	Umit	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	V	
Maximum RMS Voltage	$V_{RMS}$	140	V	
Maximum DC Blocking Voltage	$V_{DC}$	200	V	
Maximum Average Forward Rectified Current at TL = 100 $^{\circ}$ C	IO <sub>(AV)</sub>	20.0	Α	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	130.0	Α	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	ii Givi	260.0	Α	
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l <sup>2</sup> t	70	A <sup>2</sup> S	
Maximum Forward Voltage at 10.0A DC	$V_{FM}$	0.95	V	
Maximum Reverse Current TA = 25℃	IR	0.1	mA	
at Rated DC Blocking Voltage TA = 100 ℃		20	mA	
Typical Junction Capacitance	CJ	300	pF	
Typical Thermal Resistance TO-220AB,TO-260	Б	2.0	°C/W	
TO-220F	R <sub>QJC</sub>	4.0		
Operating Junction Temperature Range	$T_J$	—55to+150	$^{\circ}$ C	
Storage Temperature Range	T <sub>STG</sub>	—55to+150	$^{\circ}$	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

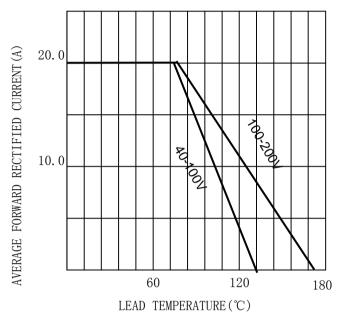
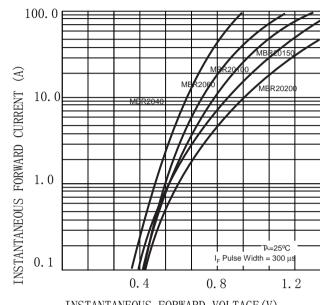


FIG. 2TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE(V)

FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

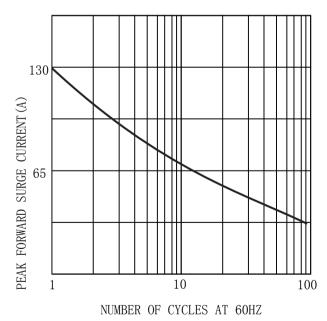
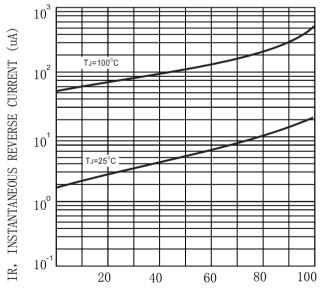


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)

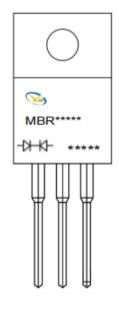


PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



#### **MARKING INFORMATION**

TO-220AB/CT



-D-K- = Polar line

🤝 = Logo

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

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



# Package Outline Dimensions millimeters

TO-220AB/CT										
A C	DIM	INCHES		MM		NOTE				
- " -	1 7	DIM	min	max	min	max	NOTE			
e	1	A	_	0.41	_	10.30				
B A A A A A A A A A A A A A A A A A A A	В	0. 33	0.34	8.30	8. 70					
	С	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					
E2		b	_	0.16	-	4. 10				
d	c	0.03	0.04	0.72	0. 92					
1000	-	d	0.01	0.02	0.30	0.50				
-  a  -		е		0. 15	_	3. 80	Ø			
		f	0.05	0.06	1.20	1. 40				

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