

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

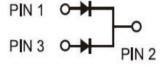
Package: TO-220AB,TO-220F,TO-263 Terminals:Tin Plated leads, solderable per

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	MBR20100CT	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 $^{\circ}$	IO _(AV)	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℃	ii ow	260.0	А	
Current squared time @1ms≤t8.3≤ms Tj=25℃, Rating of per diode	I ² t	70	A ² S	
Maximum Forward Voltage at 10.0A DC	V_{FM}	0.85	V	
Maximum Reverse Current TA = 25℃	IR	0.1	mA	
at Rated DC Blocking Voltage TA = 100 ℃	IK	20	mA	
Typical Junction Capacitance	CJ	300	pF	
Typical Thermal Resistance TO-220AB,TO-260	Б	2.0	°C // //	
TO-220F	R _{QJC}	4.0	°C/W	
Operating Junction Temperature Range	T_J	—55to+150	$^{\circ}$	
Storage Temperature Range	T _{STG}	—55to+150	$^{\circ}$	



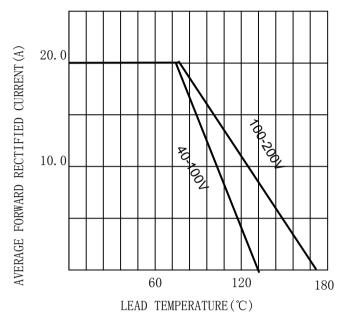


FIG. 2TYPICAL FORWARD CHARACTERISTICS

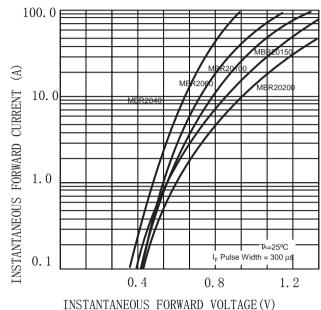


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

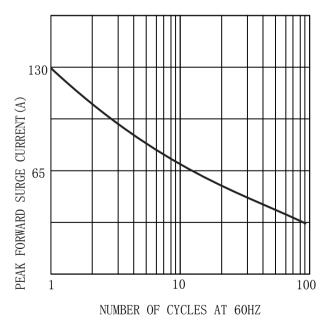
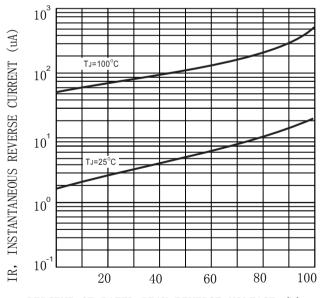


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)

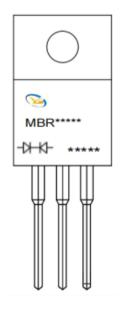


PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



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			
		min	max	min	max	NOTE			
e	1	A	_	0.41	_	10.30			
	В	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	1	0.16	_	4. 10				
	c	0.03	0.04	0.72	0. 92				
	d	0.01	0.02	0.30	0.50				
	е		0. 15	_	3. 80	Ø			
		f	0.05	0.06	1.20	1. 40			

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