

Schottky Diodes Reverse Voltage-40to200v Forward current-10A

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

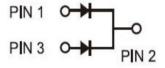
Package: TO-220AB,TO-220F,TO-263 Terminals:Tin Plated leads, solderable per

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

specified) Type Number	SYMBOL	MBR10100CT	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 $^{\circ}$ C	IO _(AV)	10.0	Α	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	100.0	Α	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 ℃	ii Givi	200.0	Α	
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l ² t	41.5	A ² S	
Maximum Forward Voltage at 5.0A DC	V_{FM}	0.85	V	
Maximum Reverse Current TA = 25℃	IR -	0.1	mA	
at Rated DC Blocking Voltage TA = 100 ℃	IIX	20	mA	
Typical Junction Capacitance	CJ	300	pF	
Typical Thermal Resistance TO-220AB,TO-260	Б	2.0	° 0 0 0 0	
TO-220F	R _{QJC}	4.0	°C/W	
Operating Junction Temperature Range	T _J	—55to+150	$^{\circ}$ C	
Storage Temperature Range	T _{STG}	—55to+150	$^{\circ}$ C	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

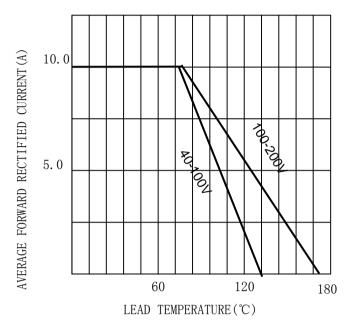


FIG. 2TYPICAL FORWARD CHARACTERISTICS

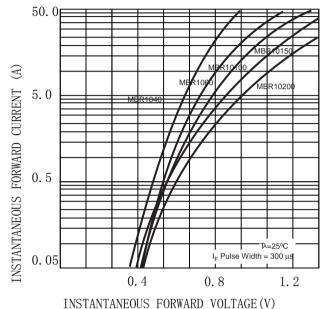


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

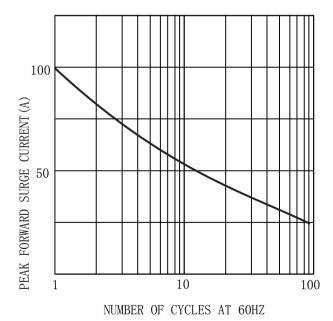
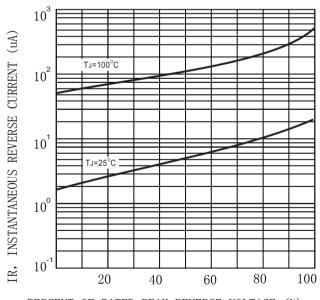


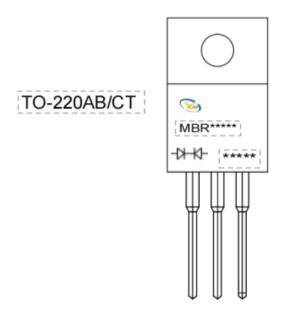
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)

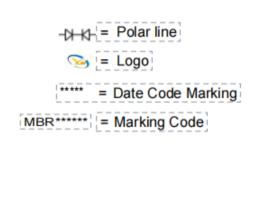


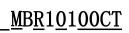
PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

<u>MBR10100CT</u>

MARKING INFORMATION



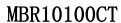






Package Outline Dimensions millimeters

TO-220AB/CT									
Α	L C _	DĪM	INCHES		MM		INOTE		
- " -		DIM,	min	max	min	max	NOTE		
e -	1	$\frac{1}{A}$	[-]	0. 41	[-]	10. 30			
7	-f	$ \bar{\mathbf{B}} $	0. 33	0. 34	8.30	8. 70			
	¦C]	0. 18	0. 19	4.50	4. 90				
	$ \bar{\mathbf{D}} $	0. 57	0.60	14.60	15. 20				
	$[\bar{\mathbf{E}}]$	0. 53	0. 56	13.50	$[\bar{1}\bar{4},\bar{1}\bar{0}]$				
	a	0. 10	0. 10	2.45	2. 65				
m		$\lfloor \bar{\mathbf{b}} \rfloor$	[]	0. 16	[_]	4. 10			
	d	$\begin{bmatrix} \mathbf{c} \end{bmatrix}$	0. 03	0.04	0.72	0. 92			
1 U U-U-	-	$\frac{1}{d}$	0. 01	0.02	0.30	0. 50			
- a -		¦e ì	[-]	0. 15	[-]	3. 80	Ø.		
		$\left[\mathbf{f}\right]$	0. 05	0.06	1.20	1. 40			





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