

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

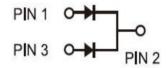
Package: TO-220AB,TO-220F,TO-263 Terminals:Tin Plated leads, solderable per

Mil-STD-750 Method 2026

Polarity: As marked

Molding compound meets UL 94 V-0 flammability rating,

ROHS-compliant





TO-220F

Maximum Ratings (Ta=25°C Unless otherwise

specified) Type Number	SYMBOL	MBRF10200CT	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 _(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}	0.95	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/W	
TO-220F	R _{QJC}	4.0		
Operating Junction Temperature Range	T _J	—55to+150	$^{\circ}$ C	
Storage Temperature Range	T _{STG}	—55to+150	${\mathbb C}$	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

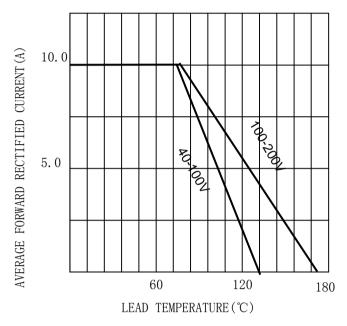


FIG. 2TYPICAL FORWARD CHARACTERISTICS

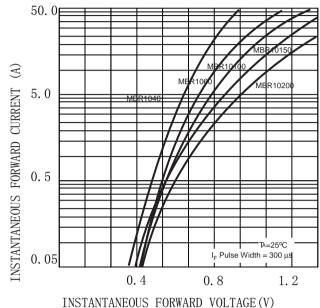


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

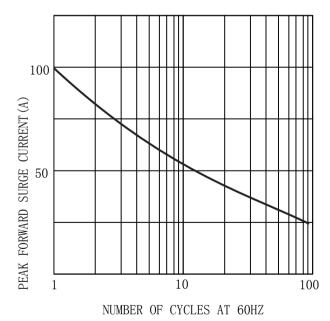
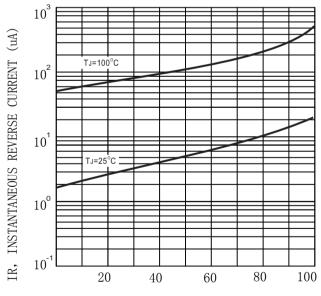


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)

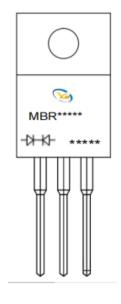


PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



MARKING INFORMATION

TO-220F/FCT

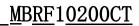


-N-K- = Polar line

🤝 = Logo

***** = Date Code Marking

MBR***** = Marking Code





Package Outline Dimensions millimeters

T0-220F/FCT									
1 A 1	. C .	DIM	INCHES		MM		NOTE		
1		DIM	min	max	min	max	NOTE		
		Α	_	0.41	_	10.30			
	В	0.61	0.64	15.60	16. 20				
m m	f	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				
	\top	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				
1 U U-U-	d	е	_	0. 15	_	3. 80	Ø.		
+ -	II	f	0.09	0. 11	2.40	2. 80			





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