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

**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

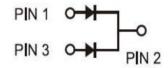
Package: TO-220AB,TO-220F,TO-263 Terminals:Tin Plated leads, solderable per

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℃ Unless otherwise

Type Number	SYMBOL	MBR30200CT	Umit	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	200	V	
Maximum RMS Voltage	V <sub>RMS</sub>	140	V	
Maximum DC Blocking Voltage	V <sub>DC</sub>	200	V	
Maximum Average Forward Rectified Current at TL = 100 $^{\circ}$	IO <sub>(AV)</sub>	30.0	Α	
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	IFSM	230.0	Α	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C		460.0	Α	
Current squared time @1ms≤t8.3≤ms Tj=25℃,Rating of per diode	l <sup>2</sup> t	219.5	A <sup>2</sup> S	
Maximum Forward Voltage at 30.0A 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	~~/W	
TO-220F	R <sub>QJC</sub>	4.0		
Operating Junction Temperature Range	T <sub>J</sub>	55to+150	$^{\circ}$	
Storage Temperature Range	T <sub>STG</sub>	-55to+150	$^{\circ}$	

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

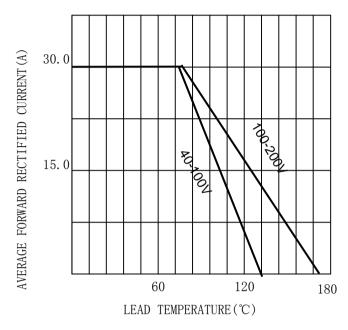


FIG. 2TYPICAL FORWARD CHARACTERISTICS

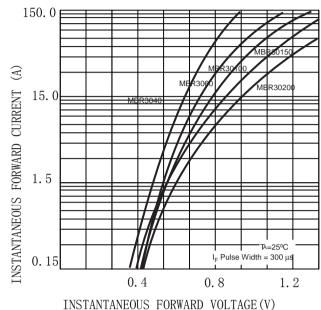


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

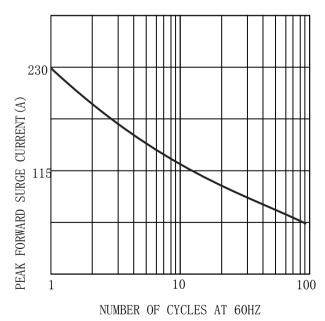
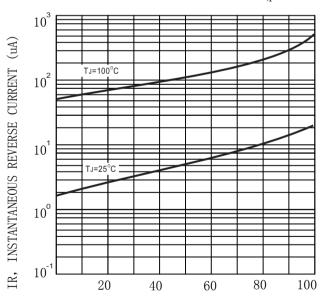


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)

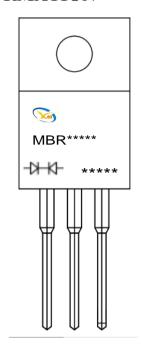


PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



### **MARKING INFORMATION**

TO-220F/FCT



-Ŋ-K)- = Polar line

🤝 = Logo

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

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



<u>MBRF30200C</u>T

# Package Outline Dimensions millimeters

T0-220F/FCT									
A   C		рти	INCHES		MM		NOTE		
-		DIM	min	max	min	max	NOTE		
10		A	1	0.41	_	10.30			
		В	0.61	0.64	15.60	16. 20			
В	f	C	0.18	0.19	4.50	4. 90			
	1	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- C	d	е	_	0. 15	_	3. 80	Ø.		
+ -	II	f	0.09	0. 11	2.40	2. 80			

## Important Statements and disclaimers.

Do not copy or modify file information without permission.

Xumao Micro reserves the right to modify this document and its products.

Specifications are available without prior notice. Customer shall 。 obtain and confirm the latest product information and specifications prior to final design, purchase or use.

Xumao Micro does not assume any implied warranties, including warranties of fitness for special purposes, non-infringement and merchantability.

The products shown here are not designed and licensed for demanding equipment at a level of reliability or for human life and any life-saving related applications or life-sustaining, such as medical devices, transportation equipment, aerospace machinery, and so on. Customers who use or sell these products for such applications do so at their own risk.

As Xumao Micro uses batch number as tracking benchmark, please provide batch number for tracking in case of exception.