Schottky Diodes Reverse Voltage-200v Forward current-20A

Features

Schottky chip

Low forward voltage drop

Ldeal for surface mounted applications

Low power loss, high efficiency

Plastic Case Material has UL Flammability

Mechanical Data

Package: TO-220F

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

PIN 1 O PIN 2



TO-220F

Maximum Ratings (Ta=25℃ Unless otherwise specified)

Type Number	SYMBOL	MBRF20L200CT	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	IO _(AV)	20.0	А
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated load(JEDEC Method) on rated	- IFSM	100.0	А
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C	iii Givi	200.0	А
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 10.0A DC	V _{FM}	0.9	V
Maximum Reverse Current TA = 25℃	- IR	0.1	mA
at Rated DC Blocking Voltage TA = 100 ℃	- IK	20	mA
Typical Thermal Resistance 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. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

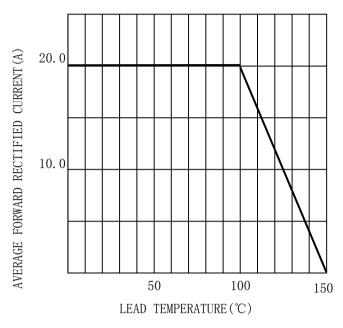


FIG. 2TYPICAL FORWARD CHARACTERISTICS

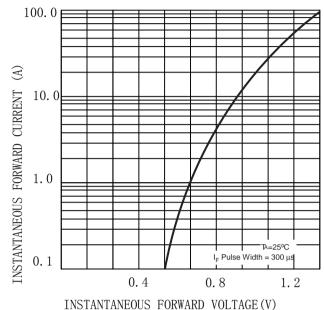


FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

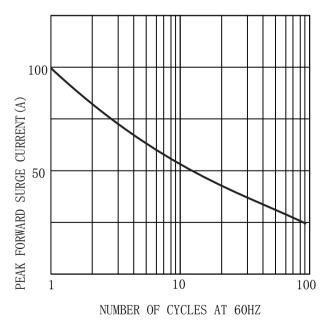
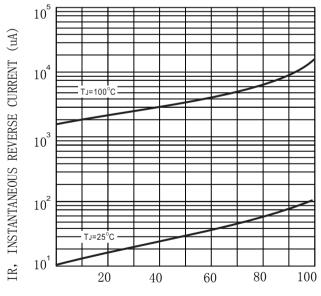


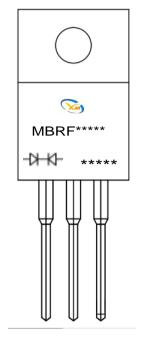
FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)

MARKING INFORMATION

TO-220F/FCT



-D-K- = Polar line

🤝 = Logo

***** = Date Code Marking

MBRF***** = Marking Code

Date Code Marking

<u>A</u>

Year/month code

<u>001</u>

Order serial number

Example: January 2023 order number is 001, period A001

January 2025 Order number is 001, period Å001

Period code year distinction								
2023/2024	2025/2026	2027/2028	2029/2030	2031/2032	remark			
no	first	second	tertius	fourth	Dot above corresponding character			

eriod code month code mapping table												
month	1	2	3	4	5	6	7	8	9	10	11	12
Single year (Example 2023)	Α	В	С	D	E	F	G	Н	I	J	K	L
Biennial (example 2024)	М	Ν	0	Р	Q	R	S	Т	J	V	W	Х

Package Outline Dimensions millimeters

TO-220F/FCT								
A	A C		INCHES		M	NOTE		
		DIM	min	max	min	max	NOTE	
le de		A		0.41		10.30		
	Ψ \neg	В	0.61	0.64	15.60	16. 20		
B	f	С	0.18	0.19	4.50	4.90		
		D	0.26	0.28	6.60	7.00		
		Е	0.50	0.53	12.80	13. 40		
9		a	0.10	0.10	2.45	2.65		
	b		0.16		4. 10			
[H]		С	0.03	0.04	0.72	0.92		
		d	0.02	0.02	0.40	0.60		
<u> </u>	□ d	е	_	0.15	_	3.80	Ø	
+ -	-11-	f	0.09	0.11	2.40	2.80		

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