

Schottky Diodes Reverse Voltage-150v Forward current-20 (2*10) A

Features

Schottky chip

Low forward voltage drop

Ldeal for surface mounted applications

Low power loss, high efficiency

Plastic Case Material has UL Flammability



TO-220F

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 3 O PIN 2

Maximum Ratings (Ta=25^oC Unless otherwise specified)

		_
SYMBOL	MBR20L150CT	Umit
V_{RRM}	150	V
V_{RMS}	105	V
V _{DC}	150	V
IO _(AV)	20.0	А
IESM	130.0	А
II GIVI	260.0	А
I ² t	49.8	A ² S
V _{FM}	0.85	V
ID	0.1	mA
	20	mA
R_{QJa}	75	°C/W
R_{QJC}	4.0	
T _J	55to+150	$^{\circ}$ C
T _{STG}	55to+150	$^{\circ}$ C
	V _{RRM} V _{RMS} V _{DC} IO _(AV) IFSM I** I** I** I** I** I** I** I	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

FIG. 1MAXIMUM AVERAGE FORWARD CURRENT DERATING

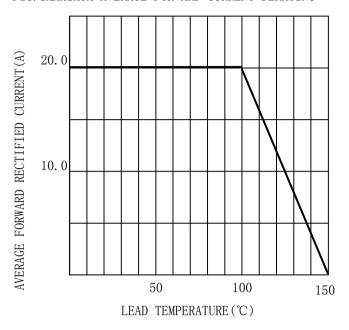
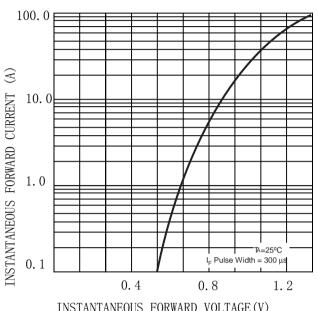


FIG. 2TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE(V)

FIG. 3MAXIMUM NON-REPEITIVE SURGE CURRENT

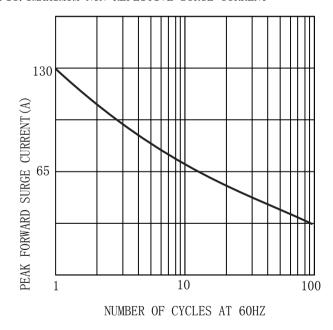
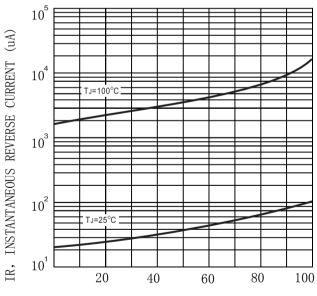
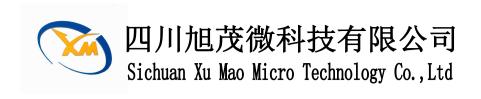


FIG. 4 TYPICAL REVERSE CHARACTERISTICS (per element)

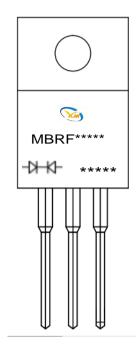


PERCENT OF RATED PEAK REVERSE VOLTAGE (%)



MARKING INFORMATION

TO-220F/FCT



-N-K- = Polar line

= Logo

***** = Date Code Marking

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 \$001

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	U	V	W	Х



Package Outline Dimensions millimeters

TO-220F/FCT									
Α	A C		INC	HES	M	NOTE			
-		DIM	min	max	min	max	NOTE		
		A	_	0.41		10.30			
		В	0.61	0.64	15.60	16. 20			
В	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			
		a	0.10	0.10	2.45	2.65			
		b	_	0.16		4.10			
田		С	0.03	0.04	0.72	0.92			
		d	0.02	0.02	0.40	0.60			
<u> </u>	<u> </u>	е		0. 15		3.80	Ø		
+	-111	f	0.09	0.11	2.40	2.80			

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