

MBRF60100CT

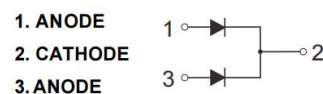
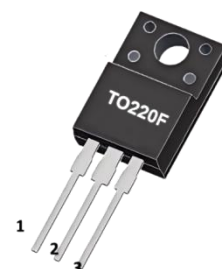
SCHOTTKY BARRIER RECTIFIER

DESCRIPTION

The MBRF60100CT meet the ROHS and Green Product requirement with full function reliability approved.

FEATURE

- *Low power loss, high efficiency.
- *High surge capacity.
- *High frequency operation.
- *For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications.
- *Metal silicon junction, majority carrier conduction.
- *High current Capability, low forward voltage drop.
- *Guard ring for over voltage protection.



MARKING(The image is for reference only. Please take the actual product as the standard)



MBRF60100CT=Device Code

XXXXX=Date Code

Solid Dot=Green molding compound

ABSOLUTE MAXIMUM RATINGS(TA=25°C, unless otherwise specified.)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		VRRM	100	V
Maximum average forward rectified current	Per leg	IF(AV)	30	A
	Total device		60	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method at rated TL)		IFSM	300	A
Operating junction and Storage temperature range		TJ ,Tstg	-55 to+175	°C
Typical thermal resistance3)		RθJC	2.5	°C/W

ELECTRICAL CHARACTERISTICS (TA=25°C, unless otherwise specified)

PARAMETER	TEST CONDITIONS		SYMBOL	TYP.	MAX.	UNIT
Instaneous forward voltage (Per leg)	IF=20.0A		VF		0.9	V
	IF=30.0A				1.0	
Reverse Current	VR=100V	TA=25℃	IR		20	μA
		TA=125℃		8		mA

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■ TYPICAL CHARACTERISTICS

FIG. 1- FORWARD CURRENT DERATING CURVE

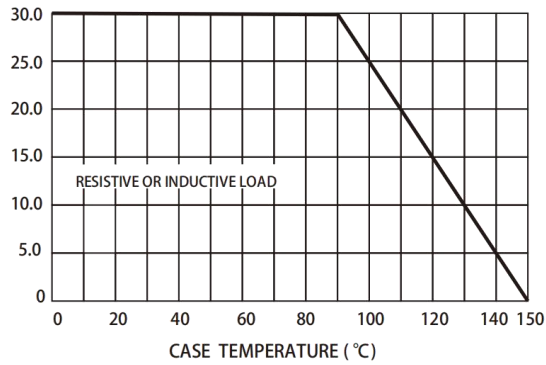


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

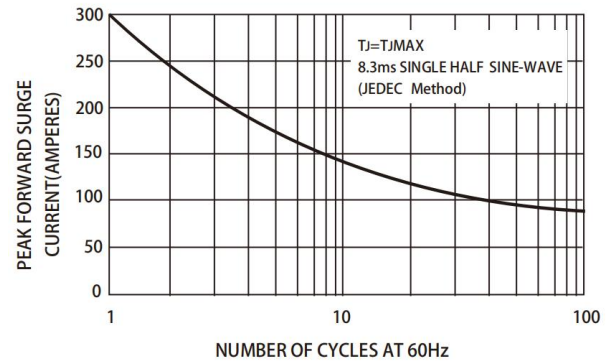


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

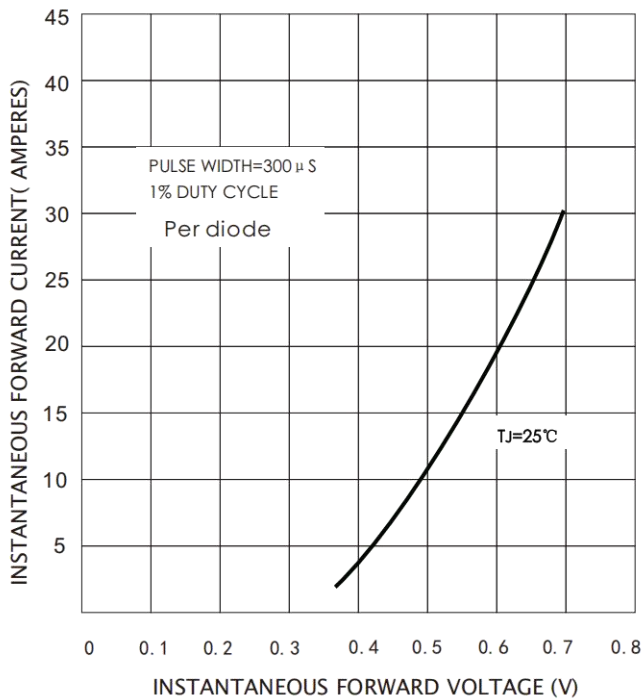
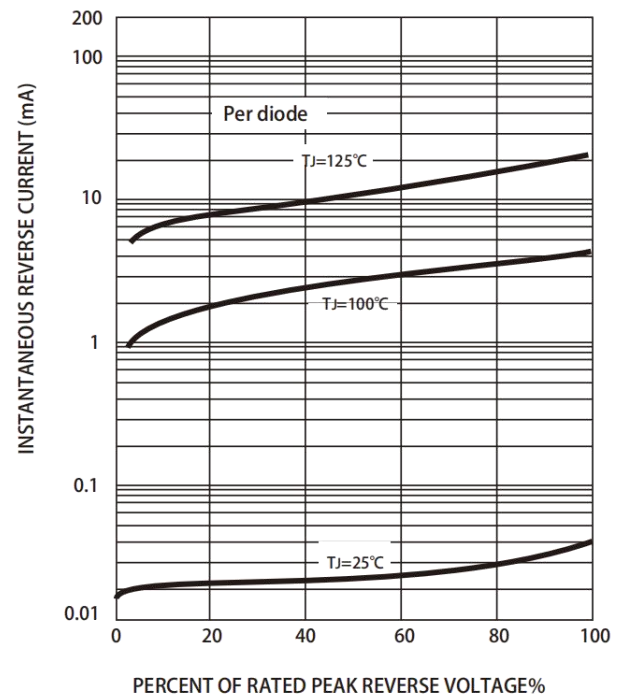


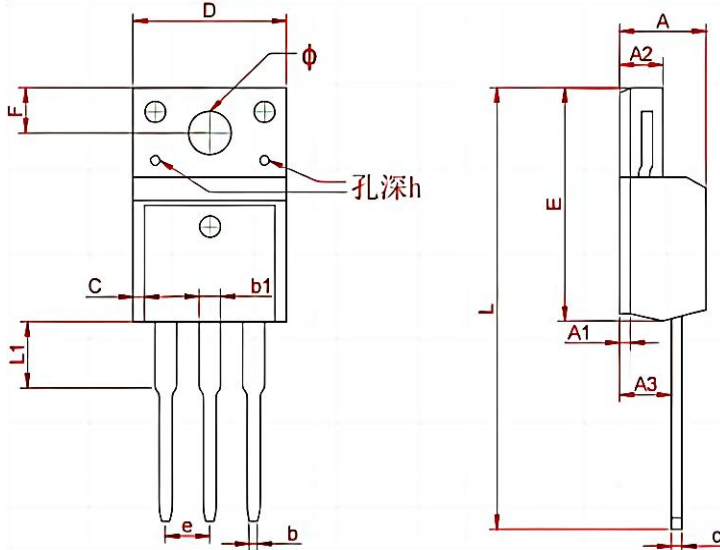
FIG. 4-TYPICAL REVERSE CHARACTERISTICS



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TO - 220F Package Outline Dimensions



Symbol	Dimensions In Millimeters	
	Min	Max
A	4.300	4.750
A1	0.7 REF	
A2	2.300	2.850
A3	2.500	2.900
b	0.380	0.420
b1	1.220	1.280
C	1.08	1.200
c	0.480	0.520
D	10.15	10.450
E	15.700	15.950
e	2.574 TYP	
F	3.470 REF	
y	3.200 REF	
h	0.000	0.800
L	28.780	28.900
L1	2.990	3.100

TO - 220F Packing Information

Package version	Tube dimensions LxWxH (mm)	Per Tube (pcs)	Tube per box	Inner box dimensions LxWxH (mm)	PCS/ Inner box	Outer box dimensions LxWxH(mm)	PCS/ Outer box
TO-220F	530*32*7	50	20	580*155*50	1000	602*277*188	5000