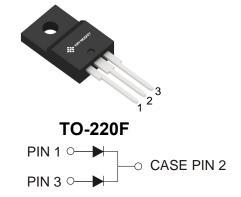


Features

- Low power loss, high efficiency
- High current capability,low forward voltage drop
- High surge capability



Maximum Ratings (Ta=25°C unless otherwise noted)

		=	
Symbol	Parameter	MBRF10200CT	Unit
V _{RRM}	Peak repetitive reverse voltage		
V _{RWM}	Working peak reverse voltage	200	V
V _R	DC blocking voltage		
V _{R(RMS)}	RMS reverse voltage	140	V
lo	Average rectified output current	10	Α
I _{FSM}	Non-Repetitive peak forward surge current (8.3ms half sine wave)	120	Α
RoJc	Thermal resistance from junction to case ,Tc=25℃	2.0	°C/W
R _{OJA}	Thermal resistance from junction to ambient	62.5	°C/W
Tj	Junction temperature	150	°C
T _{stg}	Storage temperature	-55~+150	°C

Electrical Characteristics (Ta=25°C unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	$V_{(BR)}$	I _R =0.1mA		200			V
Daviera accuracy		V _R =200V	Tj =25℃			100	uA
Reverse current	I _R		Tj =125℃			150	mA
	V _F	I _F =5A	Tj =25℃		1.00		V
Forward voltage			Tj =125℃		0.90		V
1 of ward voitage		I _F =10A	Tj =25℃		1.20		V
		ı⊦–10A	Tj =125℃		1.10		V

^{*}Pulse test: pulse width ≤300µs, duty cycle≤ 2.0%.



Typical Characteristics

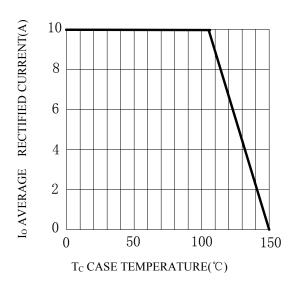


Fig.1 Forward Current Derating Curve

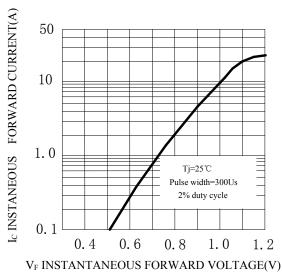
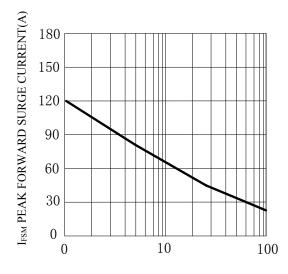
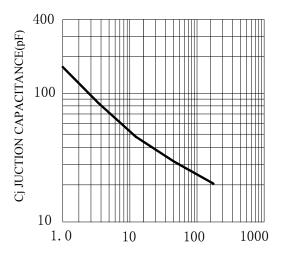


Fig.2 Typical Forward Characteristics



NUMBER OF CYCLES AT 60Hz

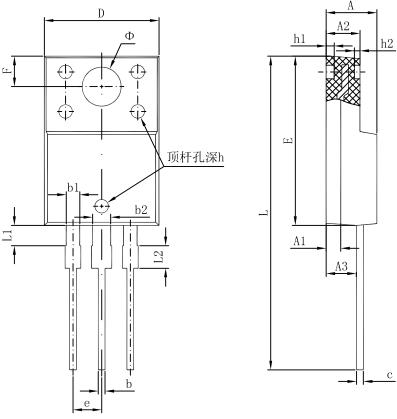
Fig.3 Max Non-Repetitive Surge Current



 V_R REVERSE VOLTAGE(V) Fig.4 Typical Junction Capacitance



Package Information TO-220F



Cymbal	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α	4.300	4.700	0.169	0.185	
A1	1.300 REF.		0.051 REF.		
A2	2.800	3.200	0.110	0.126	
A3	2.500	2.900	0.098	0.114	
b	0.500	0.750	0.020	0.030	
b1	1.100	1.350	0.043	0.053	
b2	1.500	1.750	0.059	0.069	
С	0.500	0.750	0.020	0.030	
D	9.960	10.360	0.392	0.408	
E	14.800	15.200	0.583	0.598	
е	2.540 TYP.		0.100 TYP.		
F	2.700 REF.		0.106 REF.		
Φ	3.500 REF.		0.138 REF.		
h	0.000	0.300	0.000	0.012	
h1	0.800 REF.		0.031 REF.		
h2	0.500 REF.		0.020 REF.		
L	28.000	28.400	1.102	1.118	
L1	1.700	1.900	0.067	0.075	
L2	1.900	2.100	0.075	0.083	



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