



THERMAL PERFORMANCE					
PARAMETER	SYMBOL	TYP	UNIT		
Junction-to-case thermal resistance	R _{eJC}	3.5	°C/W		

ELECTRICAL SPECIFICATIONS (T _A = 25°C unless otherwise noted)						
PARAMETER		CONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage per diode ⁽¹⁾	MBRF20H100CT	I _F = 10A,T _J = 25°C	V _F	-	0.85	V
	MBRF20H150CT				0.88	V
	MBRF20H200CT			-	0.00	V
	MBRF20H100CT	I _F = 20A,T _J = 25°C		-	0.95	V
	MBRF20H150CT			1	0.97	V
	MBRF20H200CT					
	MBRF20H100CT	I _F = 10A,T _J = 125°C		-	0.75	V
	MBRF20H150CT					
	MBRF20H200CT					
	MBRF20H100CT					
	MBRF20H150CT	I _F = 20A,T _J = 125°C		-	0.85	V
	MBRF20H200CT					
Reverse current @ rated V _R per diode ⁽²⁾		$T_J = 25^{\circ}C$	I _R	-	5	μΑ
		T _J = 125°C	I _R	-	2	mA

Notes:

- 1. Pulse test with PW = 0.3ms
- 2. Pulse test with PW = 30ms

ORDERING INFORMATION				
ORDERING CODE ⁽¹⁾⁽²⁾	PACKAGE	PACKING		
MBRF20HxCT	ITO-220AB	50 / Tube		
MBRF20HxCTH	ITO-220AB	50 / Tube		

Notes:

- 1. "x" defines voltage from 100V(MBRF20H100CT) to 200V(MBRF20H200CT)
- 2. "H" means AEC-Q101 qualified

Fig.2 Typical Junction Capacitance



CHARACTERISTICS CURVES

 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$

Fig.1 Forward Current Derating Curve

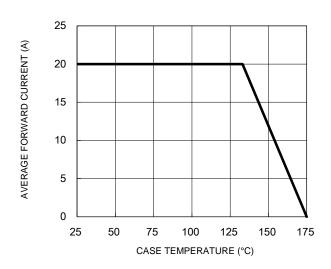


Fig.3 Typical Reverse Characteristics

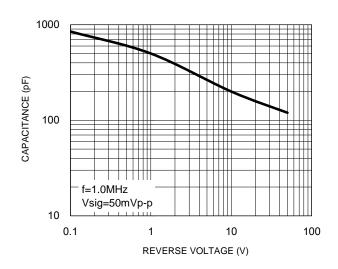
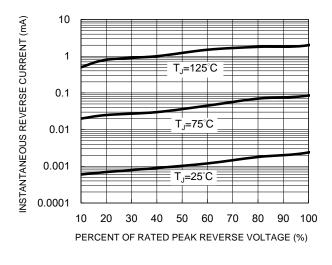


Fig.4 Typical Forward Characteristics



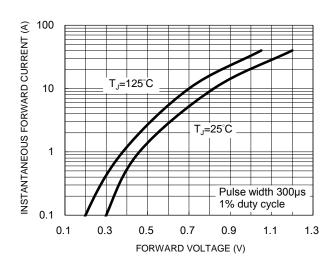
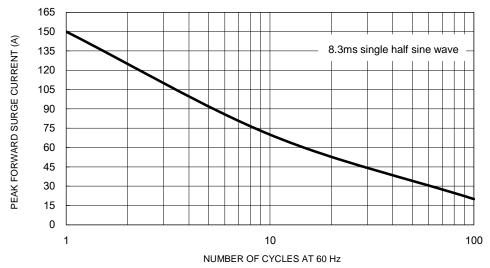


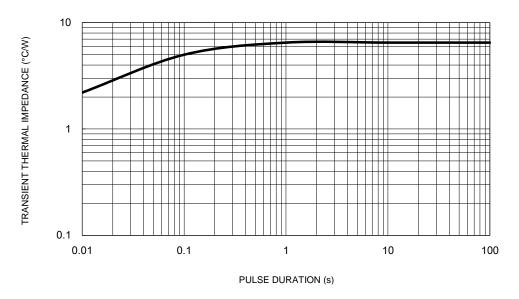
Fig.5 Maximum Non-Repetitive Forward Surge Current



CHARACTERISTICS CURVES

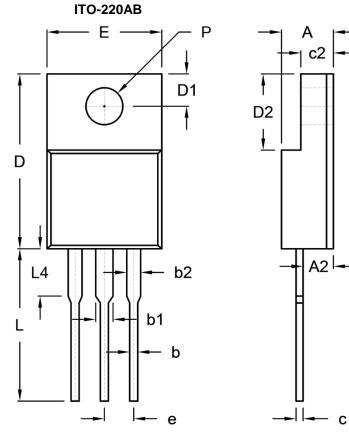
 $(T_A = 25^{\circ}C \text{ unless otherwise noted})$

Fig.6 Typical Transient Thermal Impedance





PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)		
DIW.	Min.	Max.	Min.	Max.	
Α	4.30	4.70	0.169	0.185	
A2	2.30	2.96	0.091	0.117	
b	0.50	0.90	0.020	0.035	
b1	-	1.80	-	0.071	
b2	0.95	1.45	0.037	0.057	
С	0.46	0.76	0.018	0.030	
c2	2.50	3.16	0.098	0.124	
D	14.80	15.50	0.583	0.610	
D1	2.40	3.20	0.094	0.126	
D2	6.30	6.90	0.248	0.272	
Е	9.60	10.30	0.378	0.406	
е	2.41	2.67	0.095	0.105	
L	12.60	13.80	0.496	0.543	
L4	-	4.10	-	0.161	
Р	3.00	3.40	0.118	0.134	

MARKING DIAGRAM



P/N = Marking Code G = Green Compound

YWW = Date Code F = Factory Code



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