

THERMAL PERFORMANCE					
PARAMETER	SYMBOL	TYP	UNIT		
Junction-to-case thermal resistance	R _{eJC}	5.5	°C/W		

ELECTRICAL SPECIFICATIONS (T _A = 25°C unless otherwise noted)						
PARAMETER	CONDITIONS	SYMBOL	TYP	MAX	UNIT	
Forward voltage per diode ⁽¹⁾	I _F = 5A,T _J = 25°C	V _F	0.73	0.76	V	
	$I_F = 10A, T_J = 25^{\circ}C$		0.82	0.85	V	
	I _F = 5A,T _J = 125°C		0.59	0.65	V	
	I _F = 10A,T _J = 125°C		0.66	0.71	V	
Reverse current @ rated V _R per diode ⁽²⁾	T _J = 25°C	I _R	-	20	μA	
	T _J = 125°C	I _R	-	15	mA	

Notes:

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

ORDERING INFORMATION				
ORDERING CODE ⁽¹⁾	PACKAGE	PACKING		
MBRF10L100CT	ITO-220AB	50 / Tube		
MBRF10L100CTH	ITO-220AB	50 / Tube		

Notes:

1. "H" means AEC-Q101 qualified



CHARACTERISTICS CURVES

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

Fig.1 Forward Current Derating Curve

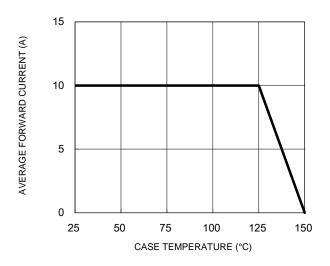


Fig.3 Typical Reverse Characteristics

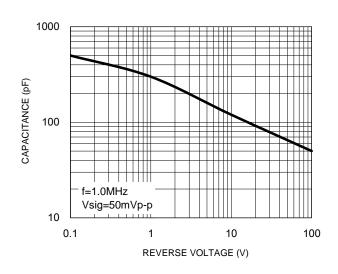
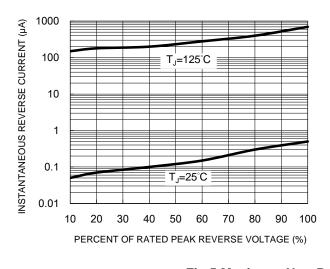


Fig.2 Typical Junction Capacitance

Fig.4 Typical Forward Characteristics



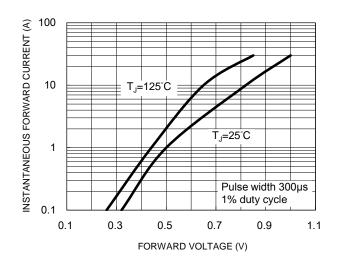
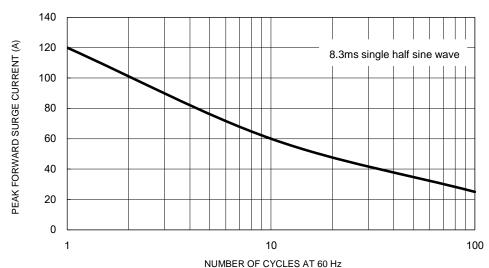


Fig.5 Maximum Non-Repetitive Forward Surge Current

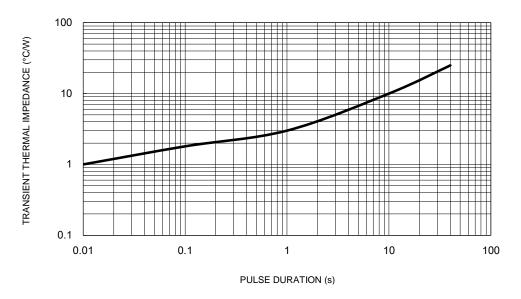




CHARACTERISTICS CURVES

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

Fig.6 Typical Transient Thermal Impedance



Version: H2105

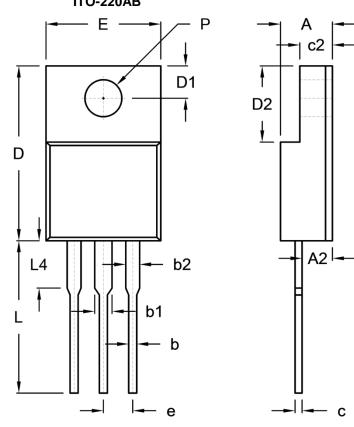
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PACKAGE OUTLINE DIMENSIONS

ITO-220AB



DIM.	Unit (mm)		Unit (inch)		
DIN.	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	
E	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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