- OL Necognized i ile # L-320243

- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC

- Halogen-free according to IEC 61249-2-21 definition



MECHANICAL DATA

Case: ITO-220AC

Molding compound, UL flammability classification rating 94V-0

Base P/N with suffix "G" on packing code - halogen-free

Base P/N with prefix "H" on packing code - AEC-Q101 qualified **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test,

with prefix "H" on packing code meet JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 5 in-lbs maximum

Weight: 1.7 g (approximately)

ITO-220AC



MAXIMUM RATINGS AND ELECTRICAL C	SYMBOL	MBRF	MBRF			MBRF	
PARAMETER		1635	1645	1650	1660	1690	16100
Maximum repetitive peak reverse voltage	V_{RRM}	35	45	50	60	90	100
Maximum RMS voltage	V_{RMS}	24	31	35	42	63	70
Maximum DC blocking voltage	V_{DC}	35	45	50	60	90	100
Maximum average forward rectified current	I _{F(AV)}	16					
Peak repetitive forward current (Rated VR, square wave, 20KHz)	I _{FRM}	32					
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150					
Peak repetitive reverse surge current (Note 1)	I _{RRM}	1 0.5					
Maximum instantaneous forward voltage (Note 2) $I_F=16A, T_J=25^{\circ}C$ $I_F=16A, T_J=125^{\circ}C$	V _F		63 57	0.75 0.8 0.65 0.7			
Maximum reverse current @ Rated V_R T _J =25 $^{\circ}$ C	ı	0.5 0.3					
T _J =125 ℃	I _R	15 10		7.5			
Voltage rate of change (Rated V _R)	dV/dt	10000					
Typical thermal resistance	$R_{ heta JC}$	3					
Operating junction temperature range	T _J	- 55 to +150					
Storage temperature range	T _{STG}	- 55 to +150					

Note 1: $tp = 2.0 \mu s$, 1.0KHz

Note 2: Pulse test with PW=300µs, 1% duty cycle

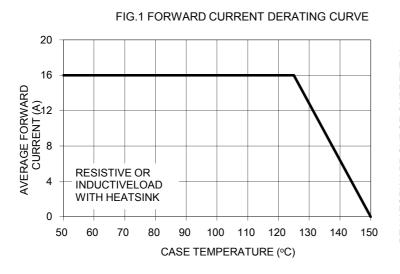
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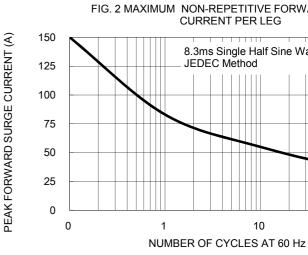
isto in the dominor rollage manifest (inizi in 1999) to 1991 (inizi in 1999)

EXAMPLE								
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESC			
MBRF1660 C0	MBRF1660		C0					
MBRF1660 C0G	MBRF1660		C0	G	Green			
MBRF1660HC0	MBRF1660	Н	C0		AEC-Q			

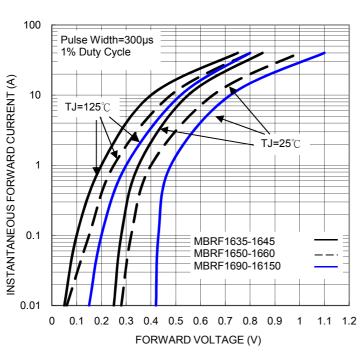
RATINGS AND CHARACTERISTICS CURVES

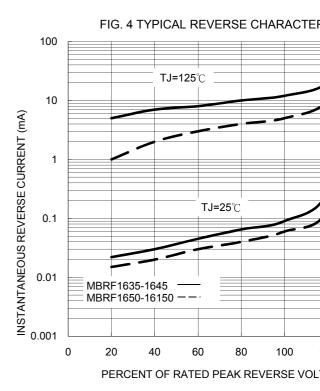
(TA=25[°]C unless otherwise noted)



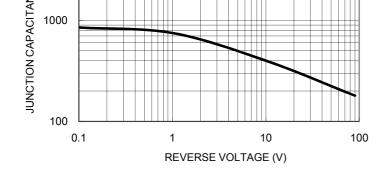


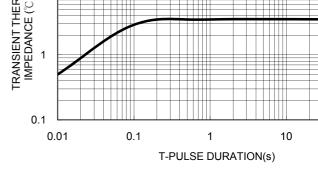




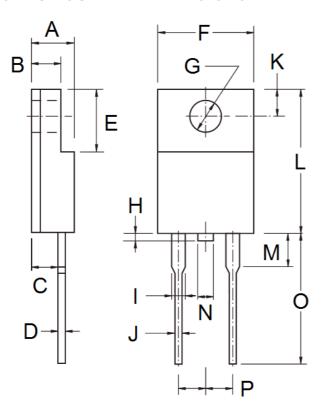


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PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min	Max	Min	Ma	
Α	4.30	4.70	0.169	0.18	
В	2.50	3.10	0.098	0.12	
С	2.30	2.90	0.091	0.11	
D	0.46	0.76	0.018	0.03	
Е	6.30	6.90	0.248	0.27	
F	9.60	10.30	0.378	0.40	
G	3.00	3.40	0.118	0.13	
Н	0.00	1.60	0.000	0.06	
I	0.95	1.45	0.037	0.05	
J	0.50	0.90	0.020	0.03	
K	2.40	3.20	0.094	0.12	
L	14.80	15.50	0.583	0.61	
М	-	4.10	-	0.16	
N	-	1.80	-	0.07	
0	12.60	13.80	0.496	0.54	
Р	4.95	5.20	0.195	0.20	

MARKING DIAGRAM



P/N = Specific Device Code

G = Green Compound YWW = Date Code

F = Factory Code

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Version

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