- riigii surge current capability
- Moisture sensitivity level: level 1, per J-STD-020
- 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: TO-263AB (D²PAK)

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

Weight: 1.37 g (approximately)



TO-263AB (D²PAK)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)							
PARAMETER	SYMBOL	MBRS	MBRS	MBRS	MBRS	MBRS	МВ
FARAIVIÈ I ER	STIVIBUL	1635	1645	1650	1660	1690	161
Maximum repetitive peak reverse voltage	V_{RRM}	35	45	50	60	90	10
Maximum RMS voltage	V_{RMS}	24	31	35	42	63	70
Maximum DC blocking voltage	V _{DC}	35	45	50	60	90	10
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		0.63 0.75 0.57 0.65		0.85 0.82		
Maximum reverse current @ rated VR T_J =25 $^{\circ}$ C	I _R	0.5 0.3					.3
T _J =125 ℃		1	15 10		7.5		
Typical thermal resistance	$R_{ heta JC}$	1.5					
Operating junction temperature range	TJ	- 55 to +150					
Storage temperature range	T _{STG}	- 55 to +175					

Note 1: 2.0µs Pulse Width, f=1.0KHz

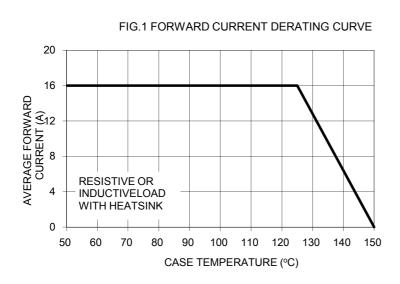
Note 2: Pulse Test : 300µs Pulse Width, 1% Duty Cycle

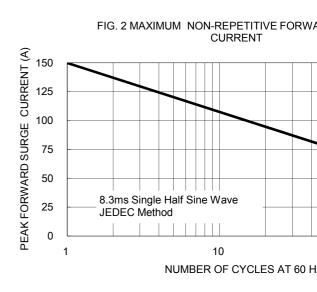
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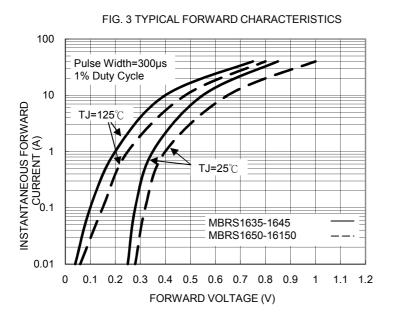
EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	DESC	
	TAKT NO.	QUALIFIED	TACKING GODE	CODE		
MBRS1660 RN	MBRS1660		RN			
MBRS1660 RNG	MBRS1660		RN	G	Green	
MBRS1660HRN	MBRS1660	Н	RN		AEC-Q	

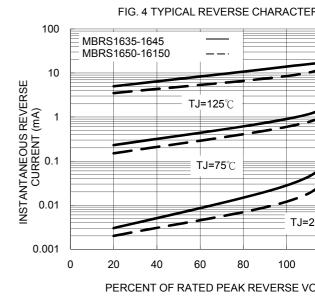
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

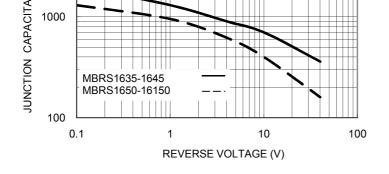


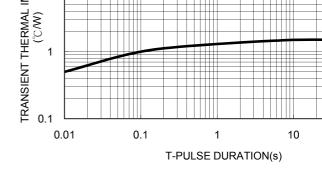




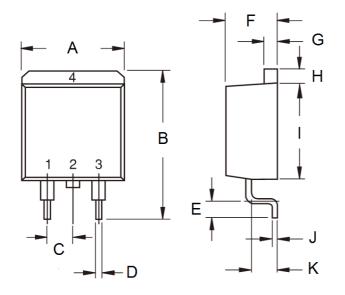


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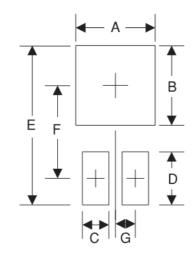


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch		
DIWI.	Min	Max	Min	N	
Α	•	10.5	-	0.	
В	14.60	15.88	0.575	0.	
С	2.41	2.67	0.095	0.	
D	0.68	0.94	0.027	0.	
Е	2.29	2.79	0.090	0.	
F	4.44	4.70	0.175	0.	
G	1.14	1.40	0.045	0.	
Н	1.14	1.40	0.045	0.	
I	8.25	9.25	0.325	0.	
J	0.36	0.53	0.014	0.	
K	2.03	2.79	0.080	0.	

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch
Α	10.8	0.425
В	8.3	0.327
С	1.1	0.043
D	3.5	0.138
E	16.9	0.665
F	9.5	0.374
G	2.5	0.098

MARKING DIAGRAM



P/N = Specific Device Code

G = Green Compound

YWW = Date Code

F = Factory Code

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