- myn 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)





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)							
		MBRS	MBRS	MBRS	MBRS	MBRS	MB
PARAMETER	SYMBOL	2035	2045	2050	2060	2090	20 [.]
		СТ	СТ	СТ	СТ	СТ	С
Maximum repetitive peak reverse voltage	V _{RRM}	35	45	50	60	90	1(
Maximum RMS voltage	V _{RMS}	24	31	35	42	63	7
Maximum DC blocking voltage	V _{DC}	35	45	50	60	90	1(
Maximum average forward rectified current	I _{F(AV)}	20					
Peak repetitive forward current (Rated VR, Square wave, 20KHz)	I _{FRM}	20					
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) $I_F=10A, T_J=25^{\circ}C$ $I_F=10A, T_J=125^{\circ}C$ $I_F=20A, T_J=25^{\circ}C$ $I_F=20A, T_J=125^{\circ}C$	V _F	0. 0.	65 57 84 72	0.80 0.70 0.95 0.85		0.85 0.75 0.95 0.85	
Maximum reverse current @ rated VR TJ=25 ℃	I _R	0.1					
T _J =125 ℃		15 10			Ę		
Voltage rate of change (Rated V _R)	dV/dt	10000					
Typical thermal resistance	R _{θJC}	1.5		2			
Operating junction temperature range	TJ	- 55 to +150					
Storage temperature range	T _{STG}	- 55 to +150					
Note 1: to $= 2.0 \text{ us}$ 1.0KHz							

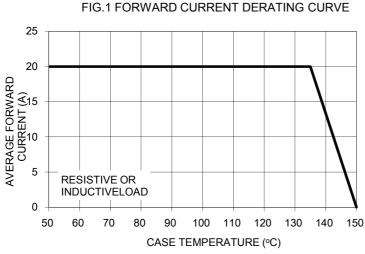
Note 1: tp = 2.0 µs, 1.0KHz

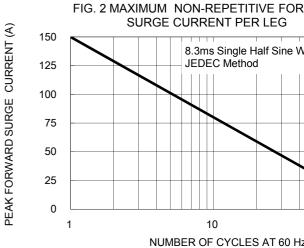
Note 2: Pulse test with PW=300µs, 1% duty cycle

EXAMPLE									
PREFERRED P/N	PART NO.	AEC-Q101	PACKING CODE	GREEN COMPOUND	Г				
		QUALIFIED		CODE	•				
MBRS2060CT RN	MBRS2060CT		RN						
MBRS2060CT RNG	MBRS2060CT		RN	G	(
MBRS2060CTHRN	MBRS2060CT	Н	RN		A				

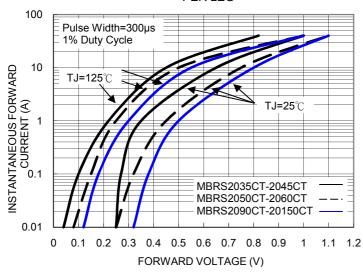
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

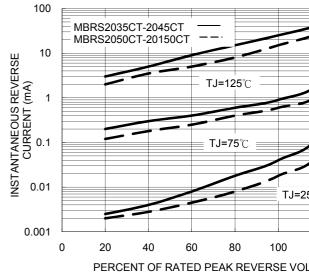


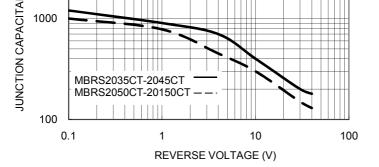








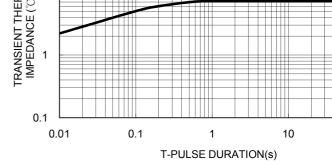




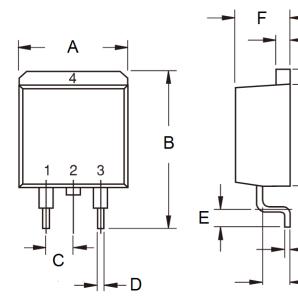
G

Η

Κ

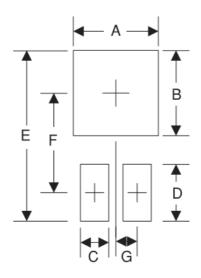


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)		
	Min	Max	Min	Max	
А	-	10.5	-	0.413	
В	14.60	15.88	0.575	0.625	
С	2.41	2.67	0.095	0.105	
D	0.68	0.94	0.027	0.037	
E	2.29	2.79	0.090	0.110	
F	4.44	4.70	0.175	0.185	
G	1.14	1.40	0.045	0.055	
Н	1.14	1.40	0.045	0.055	
I	8.25	9.25	0.325	0.364	
J	0.36	0.53	0.014	0.021	
К	2.03	2.79	0.080	0.110	

SUGGESTED PAD LAYOUT



P/N

YWW

G

F

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

MARKING DIAGRAM



- = Specific Device Code
- = Green Compound
- = Date Code
- = Factory Code

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