- 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

1 LSI K





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

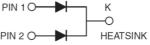
Meet JESD 201 class 1A whisker test

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

Polarity: As marked

Weight: 1.53 g (approximately)

TO-263AB (D²PAK)



PARAMETER	SYMBOL	MBRS4060CT
Maximum repetitive peak reverse voltage	V_{RRM}	60
Maximum RMS voltage	V_{RMS}	42
Maximum DC blocking voltage	V_{DC}	60
Maximum average forward rectified current	I _{F(AV)}	40
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	300
Maximum instantaneous forward voltage (Note 1) I_F =20A @ 25 $^{\circ}$ C I_F =20A @ 125 $^{\circ}$ C I_F =40A @ 25 $^{\circ}$ C I_F =40A @ 125 $^{\circ}$ C	V _F	0.8 0.7 1.0 0.9
Maximum reverse current @ rated VR T_J =25 $^{\circ}$ C T_J =125 $^{\circ}$ C	I _R	0.1 20
Voltage rate of change (Rated V _R)	dV/dt	10000
Typical thermal resistance	$R_{ heta JC}$	1.5
Operating junction temperature range - In forward mode only	TJ	- 55 to +175
Storage temperature range	T _{STG}	- 55 to +175

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

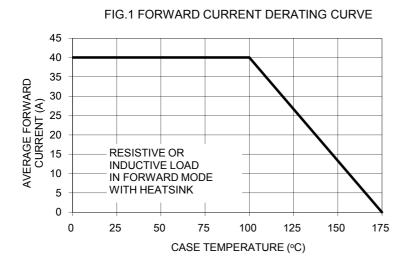
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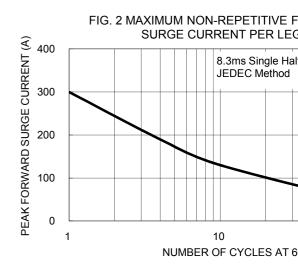
Downloaded from **Arrow.com**.

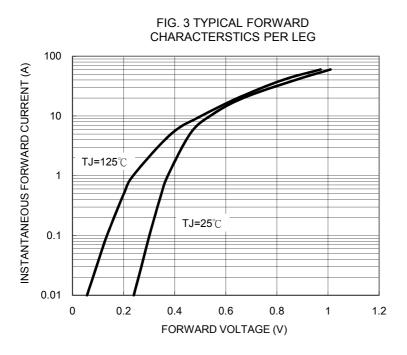
EXAMPLE						
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DI	
MBRS4060CT RN	MBRS4060CT		RN			
MBRS4060CT RNG	MBRS4060CT		RN	G	Gr	
MBRS4060CTHRN	MBRS4060CT	Н	RN		AE(

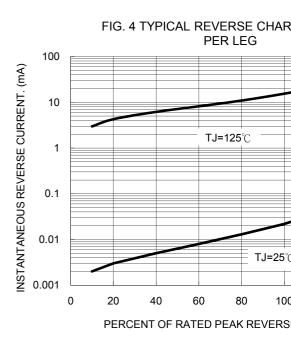
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

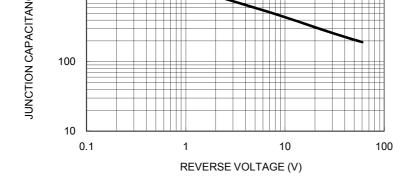






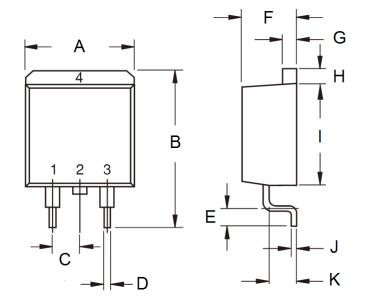


Document Number: D1308005



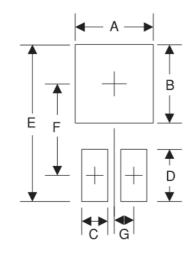


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit	(mm)	Unit (inch		
DIIVI.	Min	Max	Min	M	
Α	•	10.5	1	0.4	
В	14.60	15.88	0.575	0.0	
С	2.41	2.67	0.095	0.	
D	0.68	0.94	0.027	0.0	
Е	2.29	2.79	0.090	0.	
F	4.44	4.70	0.175	0.	
G	1.14	1.40	0.045	0.0	
Н	1.14	1.40	0.045	0.	
I	8.25	9.25	0.325	0.3	
J	0.36	0.53	0.014	0.	
K	2.03	2.79	0.080	0.	

SUGGESTED PAD LAYOUT



Unit (mm)	Unit (inch
10.8	0.425
8.3	0.327
1.1	0.043
3.5	0.138
16.9	0.665
9.5	0.374
2.5	0.098
	10.8 8.3 1.1 3.5 16.9 9.5

MARKING DIAGRAM



P/N = Specific Device Code G = Green Compound

YWW = Date Code

F = Factory Code

Document Number: D1308005

Ver

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