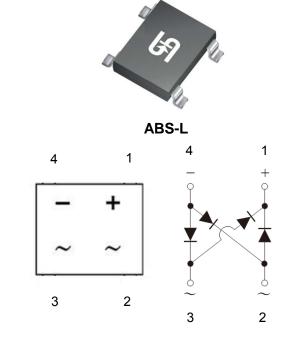


1.5A, 1000V Miniature Fast Recovery Glass Passivated Surface Bridge Rectifier

FEATURES

- Ideal for automated placement, for compact PCB design
- High surge current capability
- Ultrafast reverse recovery time for high frequency
- Negligible leakage current
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21







MECHANICAL DATA

Case: Molded plastic body

Molding compound, UL flammability classification rating 94V-0

Moisture sensitivity: level 1, per J-STD-020

Part no. with suffix "H" means AEC-Q101 qualified

Packing code with suffix "G" means green compound (halogen-free)

Terminal: Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Polarity:** Polarity as marked on the body

Weight: 0.09 g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)				
PARAMETER	SYMBOL	RABS15M	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	1000	V	
Maximum RMS voltage	V _{RMS}	700	V	
Maximum DC blocking voltage	V _{DC}	1000	V	
Maximum average forward rectified current	I _{F(AV)}	1.5	A	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	50	А	
Maximum instantaneous forward voltage (Note 1) I _F = 1.5A	V _F	1.30	V	
Maximum reverse current @ rated V_R $T_J=25^{\circ}C$ $T_J=125^{\circ}C$	I _R	1 200	μА	
Maximum reverse recovery time per diode (Note 2)	t _{rr}	500	ns	
Rating for fusing (t<8.3ms)	I ² t	10	A ² s	
Typical thermal resistance	R _{eJL} R _{eJA}	26 70	°C/W	
Operating junction temperature range	T _J	- 55 to +150	°C	
Storage temperature range	T _{STG}	- 55 to +150	°C	

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

Note 2: Reverse Recovery Test Conditions: I_F =0.5A, I_R =1.0A, I_{RR} =0.25A



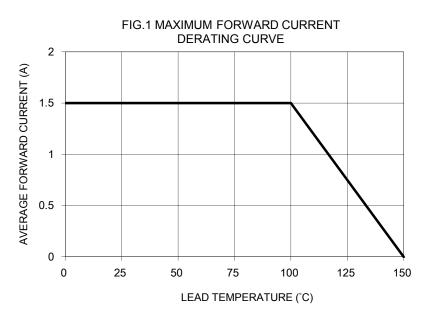
ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
RABS15M	Н	RE	G	ABS-L	1,000 / 7" Plastic reel
(Note 1)	П	RG	G	ABS-L	5,000 / 13" Paper reel

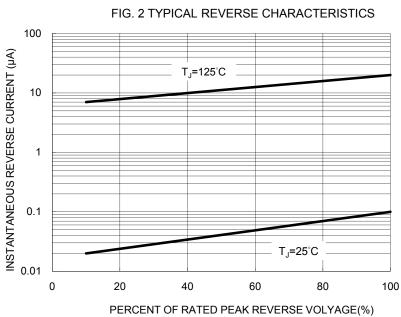
Note 1: Whole series with green compound

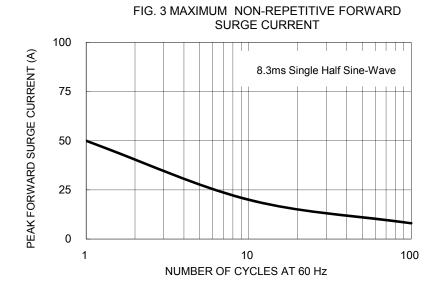
EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
RABS15MHREG	RABS15M	Н	RE	G	AEC-Q101 qualified Green compound

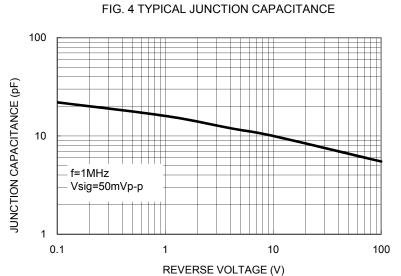
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)



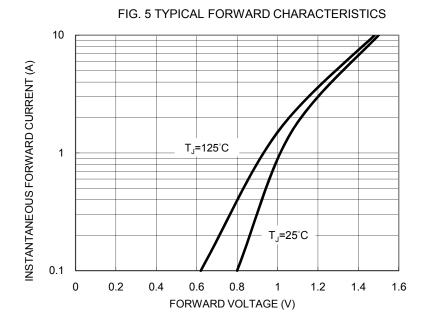






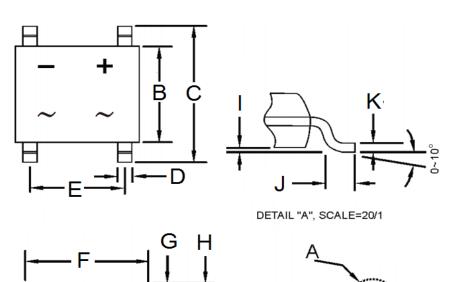
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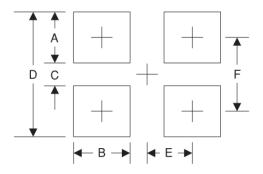
PACKAGE OUTLINE DIMENSIONS

ABS-L



DIM.	Unit (mm)		Unit (inch)		
DIIVI.	Min	Max	Min	Max	
В	4.30	4.50	0.169	0.177	
С	6.25	6.65	0.246	0.262	
D	0.60	0.70	0.024	0.028	
Е	3.90	4.10	0.154	0.161	
F	4.90	5.10	0.193	0.201	
G	1.25	1.35	0.049	0.053	
Н	1.20	1.30	0.047	0.051	
I	0.05	0.15	0.002	0.006	
J	0.30	0.70	0.012	0.028	
K	0.15	0.25	0.006	0.010	

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
Α	1.50	0.059
В	0.90	0.035
С	4.22	0.166
D	7.22	0.284
E	2.05	0.081
F	5.72	0.225

MARKING DIAGRAM



P/N = Specific Device Code

YW = Date Code F = Factory Code



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