

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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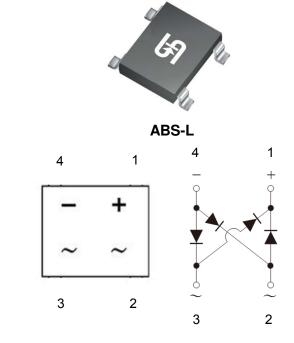




1.5A, 1000V Miniature Fast Recovery Glass Passivated Surface Bridge Rectifier

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	А	
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)	l ² t	10	A ² s	
Typical thermal resistance	$egin{array}{c} {\sf R}_{ heta {\sf J} {\sf A}} \ {\sf R}_{ heta {\sf J} {\sf A}} \end{array}$	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



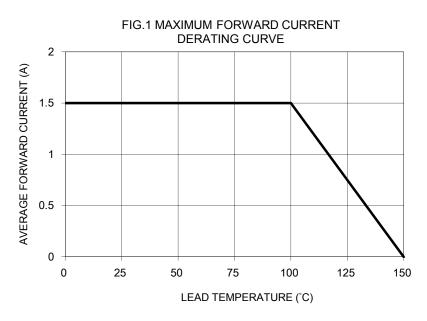
ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
RABS15M	Н	RE	G	ABS-L	1,000 / 7" Plastic reel
(Note 1)	"	RG		ABS-L	5,000 / 13" Paper reel

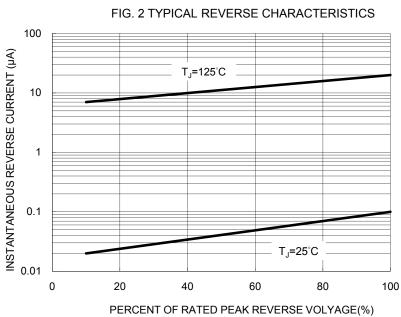
Note 1: Whole series with green compound

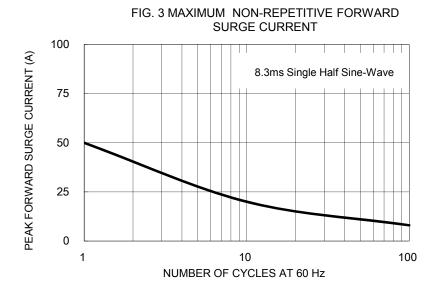
EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
RABS15MHREG	RABS15M	Ħ	RE	G	AEC-Q101 qualified Green compound

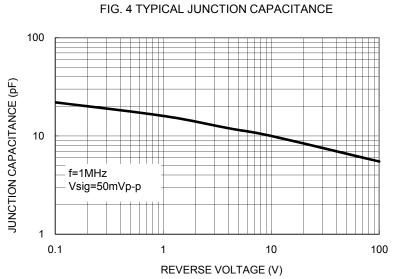
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

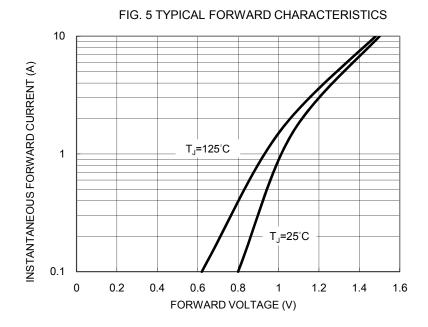






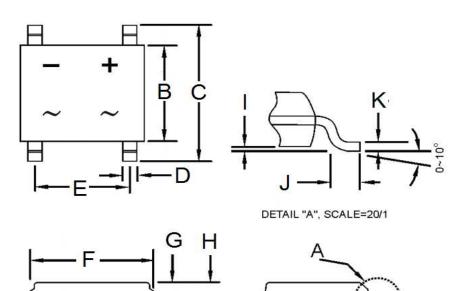






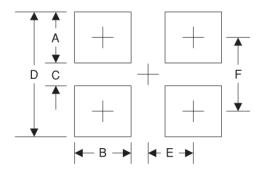
PACKAGE OUTLINE DIMENSIONS

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	
E	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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