

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









1.5A, 600V - 1000V Glass Passivated Bridge Rectifiers

FEATURES

- Glass passivated junction
- Ideal for automated placement
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21



ABS





MECHANICAL DATA

Case: Molded plastic body

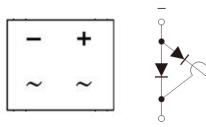
Molding compound, UL flammability classification rating 94V-0

Moisture sensitivity level: 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:** 0.096 g (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)						
PARAMETER	SYMBOL	ABS15J		ABS	615M	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	600 1000		000	V	
Maximum RMS voltage	V_{RMS}	420 700		00	V	
Maximum DC blocking voltage	V_{DC}	6	00	10	000	V
Maximum average forward rectified current On glass-epoxy On aluminum substrate	I _{F(AV)}	1.5 2.0		А		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	40		А		
Peak forward surge current, 1 ms single half sine-wave superimposed on rated load	I _{FSM}	100		А		
Rating for fusing (t<8.3ms)	l ² t	6.64			A ² s	
Maximum instantaneous forward voltage (Note 1)		TYP	MAX	TYP	MAX	
I _F = 0.5 A	V_{F}	0.88	-	0.88	-	V
I _F = 1.5 A		0.97	1.00	0.97	1.00	
T_J =25°C Maximum reverse current @ rated V_R T_J =125°C	I _R	5 150		μA		
Typical thermal resistance	R _{θJL} R _{θJA}	25 80			°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



ORDERING INFORMATION					
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
ABS15x	Н	RE	G	ABS	1,000 / 7" Plastic reel
(Note 1)	11	RG	G	ABS	5,000 / 13" Paper reel

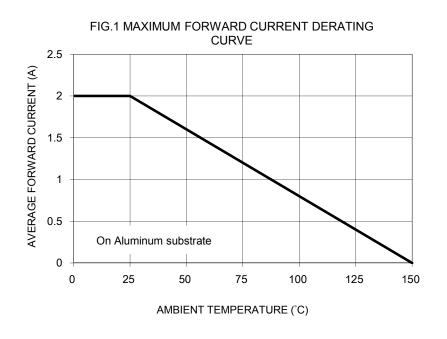
Note 1: "x" defines voltage from 600V (ABS15J) to 1000V (ABS15M)

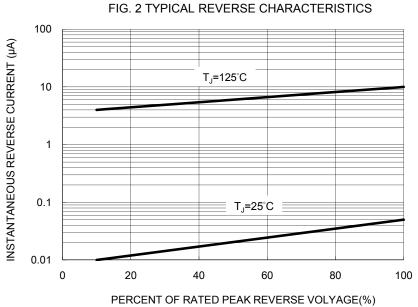
Note 2: Whole series with green compound

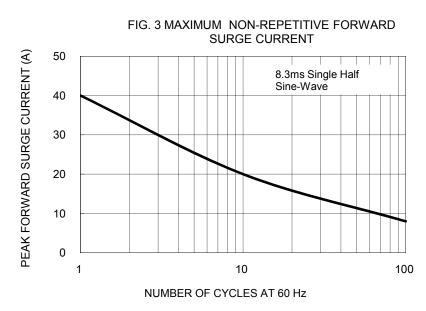
EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
ABS15JHREG	ABS15J	Н	RE	G	AEC-Q101 qualified Green compound

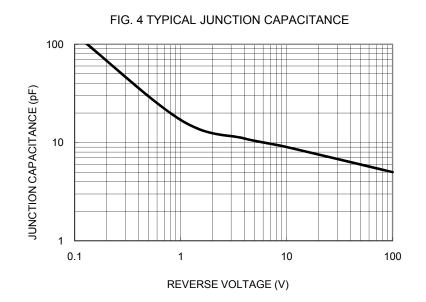
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

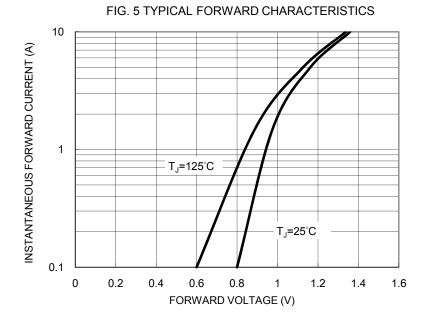






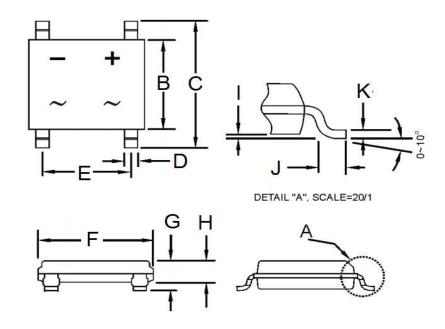






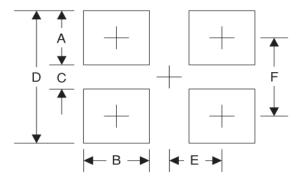
PACKAGE OUTLINE DIMENSIONS

ABS



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	0.200	
G	1.40	1.60	0.055	0.063	
Н	1.35	1.45	0.053	0.057	
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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