

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

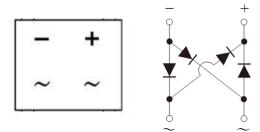
Moisture sensitivity level: level 1, per J-STD-020 Part no. with suffix "H" means AEC-Q101 qualified

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 CHAR				·		T .
PARAMETER	SYMBOL	ABS15J		ABS15M		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}	600 1000		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	
Maximum reverse current @ rated V_R T_J =25°C T_J =125°C	I _R	5 150		μA		
Typical thermal resistance	$R_{ hetaJL}$ $R_{ hetaJA}$	25 80		°C/W		
Operating junction temperature range	TJ	- 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.	PACKING CODE	PACKING CODE	PACKAGE	PACKING
	SUFFIX		SUFFIX		
ABS15x	Н	RE	G	ABS	1,000 / 7" Plastic reel
(Note 1)	11	RG	G	ABS	5,000 / 13" Paper reel

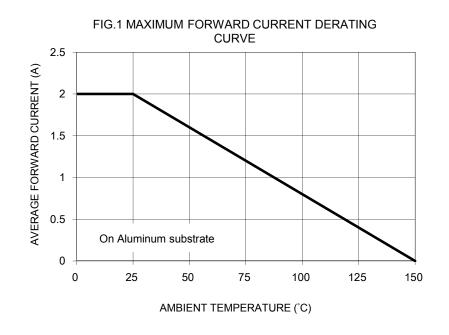
Note 1: "x" defines voltage from 600V (ABS15J) to 1000V (ABS15M)

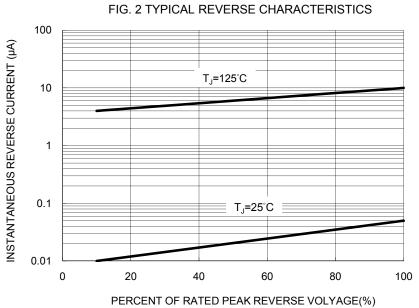
Note 2: Whole series with green compound

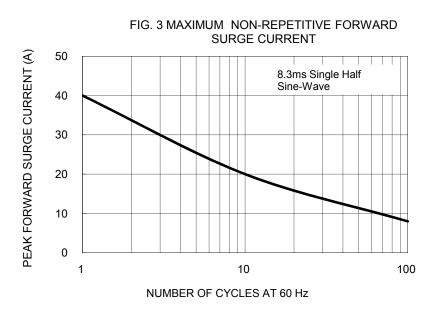
EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
ABS15JHREG	ABS15J	Н	RE	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)







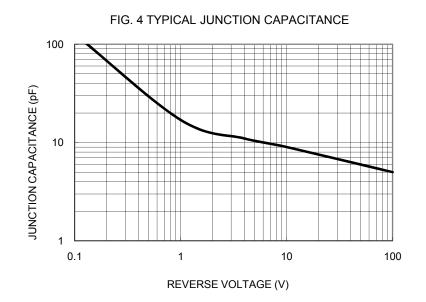
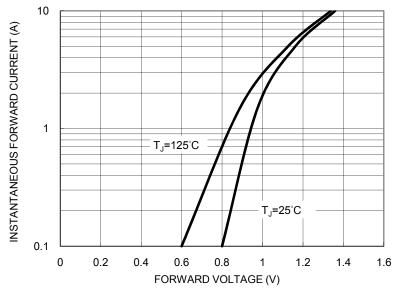


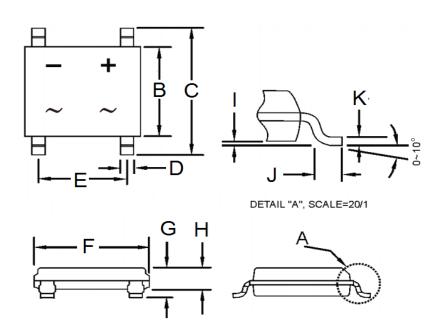


FIG. 5 TYPICAL FORWARD CHARACTERISTICS



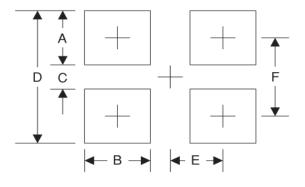
PACKAGE OUTLINE DIMENSIONS

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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