



Glass Passivated Bridge Rectifiers

FEATURES

- Glass passivated junction
- Ideal for automated placement
- Reliable low cost construction utilizing molded plastic technique
- High 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



ABS





MECHANICAL DATA

Case: Molded plastic body

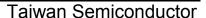
Base P/N with suffix "G" on packing code - halogen-free **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test Polarity: Polarity as marked on the body Weight: 0.096 g (approximately)

Molding compound, UL flammability classification rating 94V-0

MAXIMUM RATINGS AND ELECTRICAL CHAP	RACTERISTICS	(T _A =25°C unless other	wise noted)	
PARAMETER	SYMBOL	ABS15J	ABS15M	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	600	1000	V
Maximum RMS voltage	V _{RMS}	420	700	V
Maximum DC blocking voltage	V _{DC}	600	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}	2	10	А
Rating for fusing (t<8.3ms)	l ² t	6.64		A ² s
Maximum instantaneous forward voltage (Note 1)		Тур.	Max.	
I _F = 0.5 A	V _F	0.88	-	V
I _F = 1.5 A		0.97	1.00	
$\begin{array}{ll} \text{Maximum DC reverse current} & \text{T_J=25 °C} \\ \text{at rated DC blocking voltage} & \text{T_J=125°C} \end{array}$	I _R	5 150		μА
Typical thermal resistance	R _{θJL} R _{θJA}	25 80		°C/W
Operating junction temperature range	T _J	- 55 to +150		οС
Storage temperature range	T _{STG}	- 55 to	o +150	οС

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





ORDERING INFORMATION				
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
ABS15x	RE	Suffix "G"	ABS	1,000 / 7" Plastic reel
(Note 1)	RG	Guilla G	ABS	5,000 / 13" Paper reel

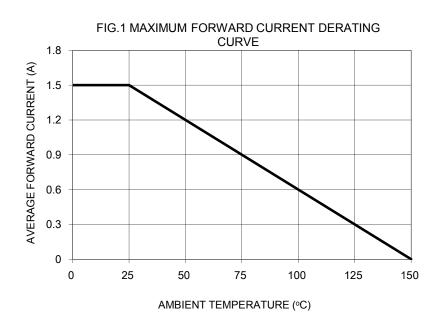
Note 1: "x" defines voltage from 600V (ABS15J) to 1000V (ABS15M)

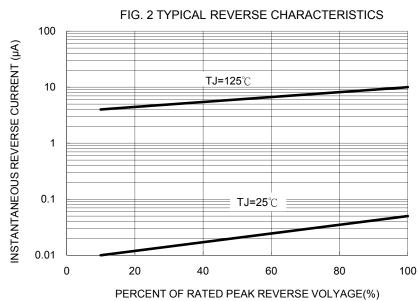
Note 2: For ABS: Packing code (Whole series with green compound)

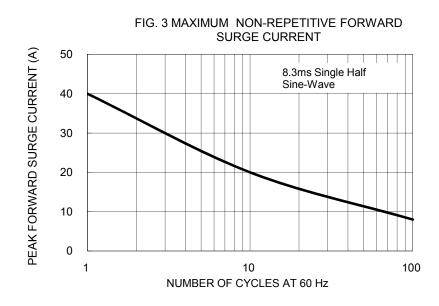
EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
ABS15J REG	ABS15J	RE	G	Green compound

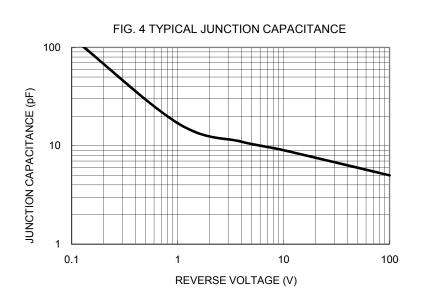
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

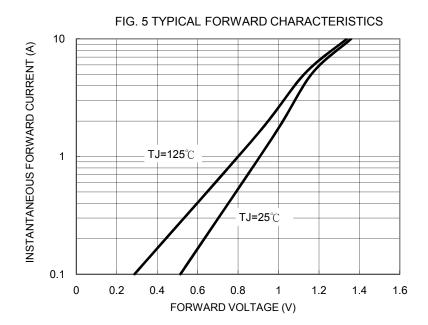




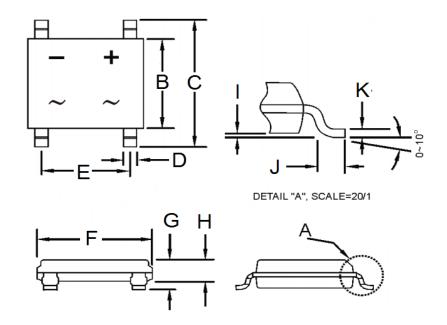






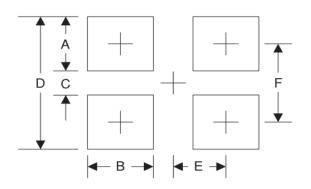


PACKAGE OUTLINE DIMENSIONS



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)
A	1.5	0.059
В	0.9	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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Document Number: DS_D1404010 Version:A13