

Surface Mount Bridge Rectifiers

FEATURES

- Ideal for automated placement
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Moisture sensitivity: 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

Molding compound, UL flammability classification rating 94V-0

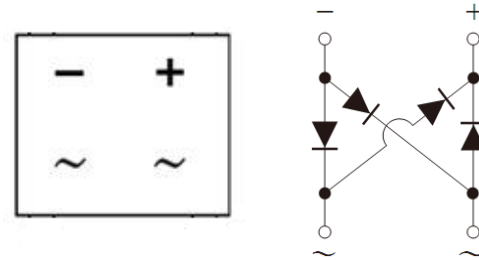
Base P/N with suffix "G" on packing code - halogen-free

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)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
PARAMETER		SYMBOL	ABS15LJ		UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	600		V
Maximum RMS voltage		V _{RMS}	420		V
Maximum DC blocking voltage		V _{DC}	600		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}	60		A
Rating for fusing (t<8.3ms)		I ² t	14.94		A ² s
Maximum instantaneous forward voltage (Note 1) I _F = 0.5 A I _F = 1.5 A		V _F	Typ.	Max.	V
			0.85	-	
			0.90	0.95	
Maximum DC reverse current at rated DC blocking voltage		I _R	5 150		μA
T _J =25 °C T _J =125°C					
Typical thermal resistance		R _{θJL} R _{θJA}	25 80		°C/W
Operating junction temperature range		T _J	- 55 to +150		
Storage temperature range		T _{STG}	- 55 to +150		°C

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

ORDERING INFORMATION				
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
ABS15LJ	RE	Suffix "G"	ABS	1,000 / 7" Plastic reel
	RG		ABS	5,000 / 13" Paper reel

Note 1: For ABS: Packing code (Whole series with green compound)

EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
ABS15LJ REG	ABS15LJ	RE	G	Green compound

RATINGS AND CHARACTERISTICS CURVES

(TA=25℃ unless otherwise noted)

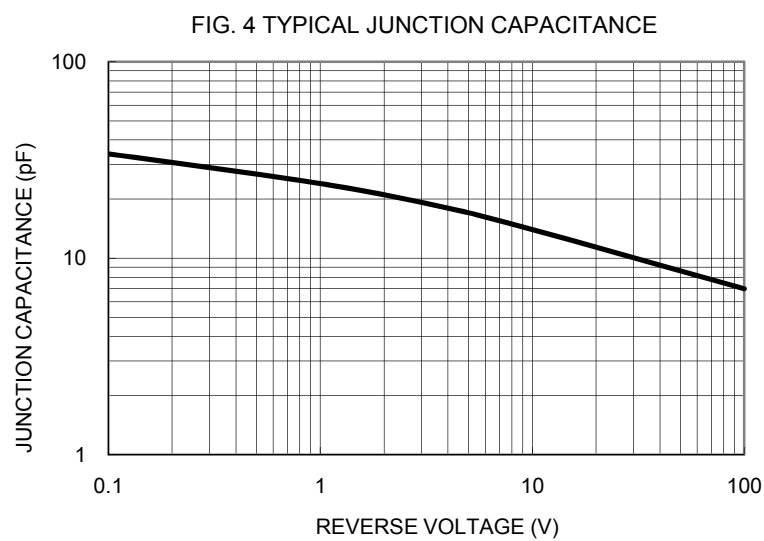
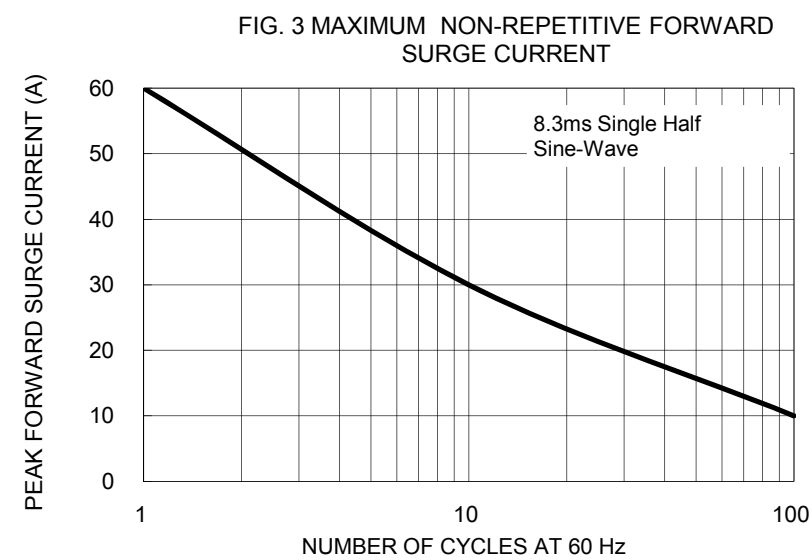
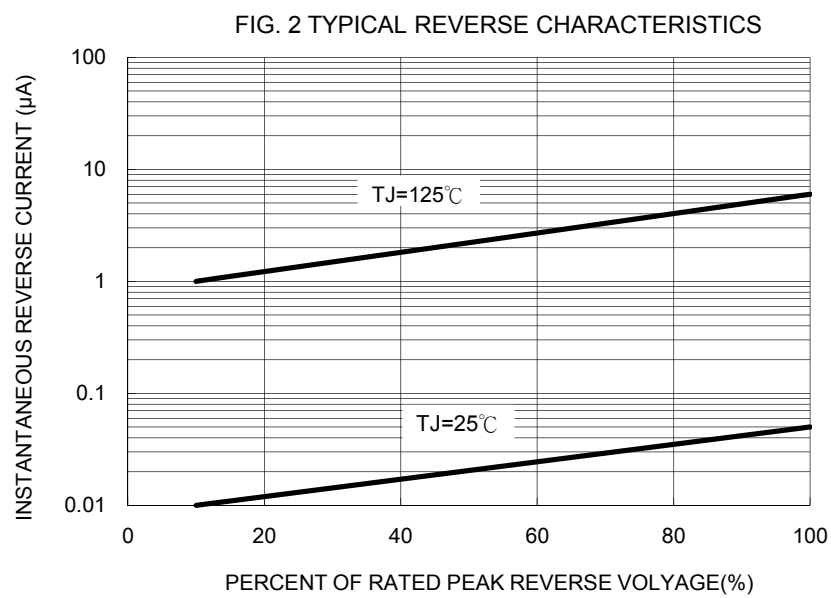
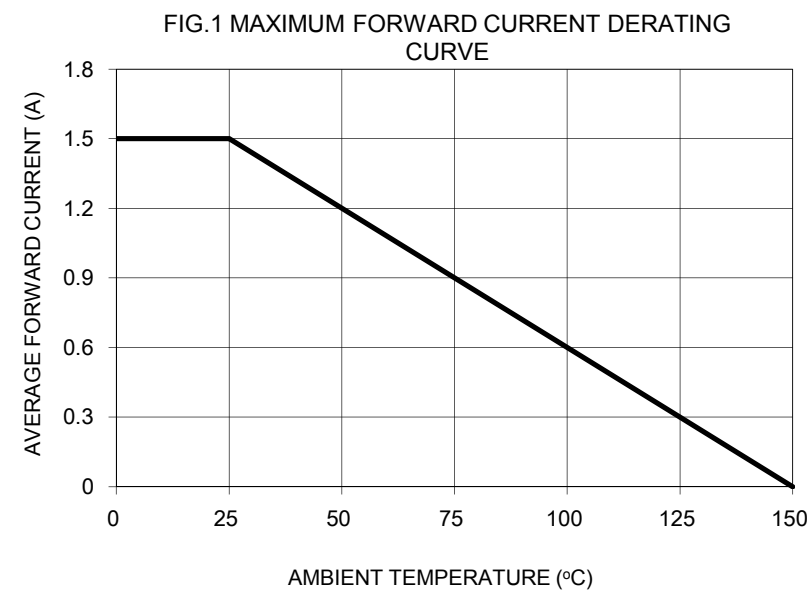
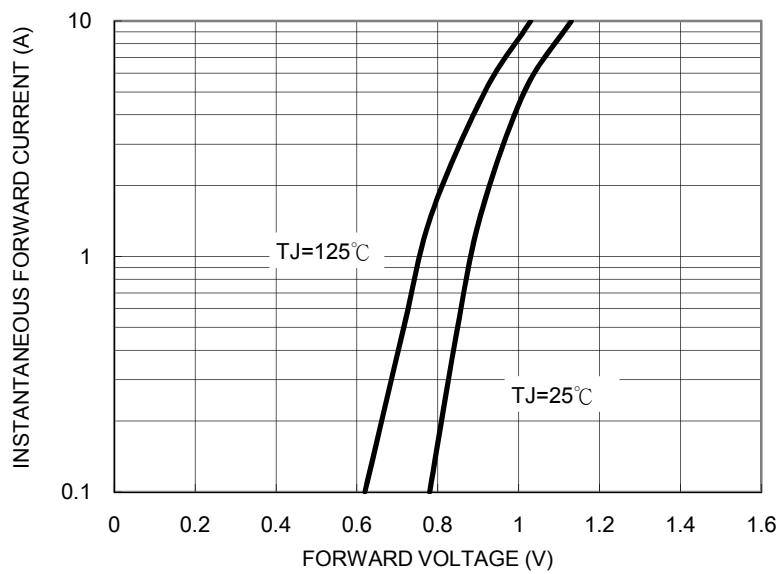
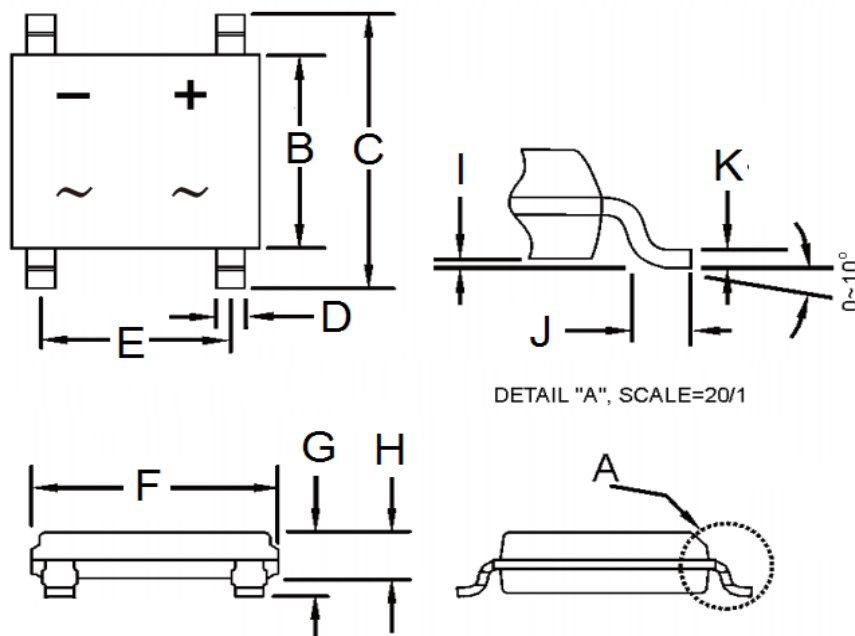


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

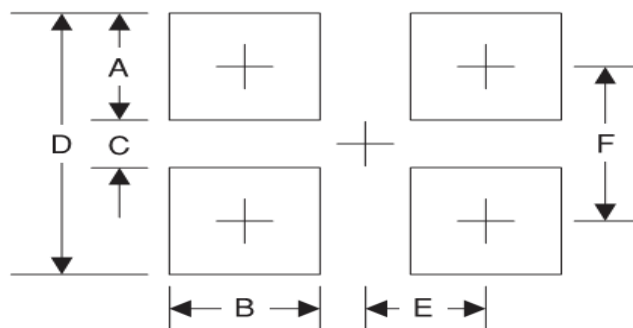


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
B	4.30	4.50	0.169	0.177
C	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	0.200
G	1.40	1.60	0.055	0.063
H	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
B	0.9	0.035
C	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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