

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

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

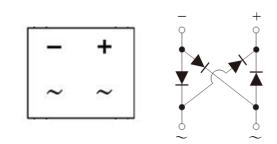
Weight: 0.096 g (approximately)



ABS







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		А
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)	l ² t	14.94		A ² s
Maximum instantaneous forward voltage (Note 1)		Тур.	Max.	V
I _F = 0.5 A	V _F	0.85	-	
I _F = 1.5 A		0.90	0.95	
Maximum DC reverse current $T_J=25 \degree$ Cat rated DC blocking voltage $T_J=125\degree$ C	I _R	5 150		μΑ
Typical thermal resistance	$R_{_{ extsf{ hetaJL}}}$ $R_{_{ hetaJA}}$	25 80		°C/W
Operating junction temperature range	T」 - 55 to +150		+150	°C
Storage temperature range	T _{STG}	- 55 to +150		°C

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



Taiwan Semiconductor

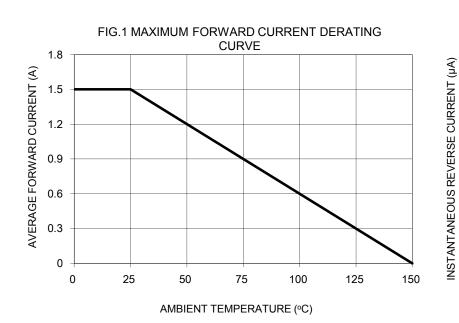
ORDERING INFORMATION				
PART NO.	PACKING CODE	GREEN COMPOUND	PACKAGE	PACKING
		CODE		
ABS15LJ	RE	Suffix "G"	ABS	1,000 / 7" Plastic reel
ABOTOLJ	RG	Sullix G	ABS	5,000 / 13" Paper reel

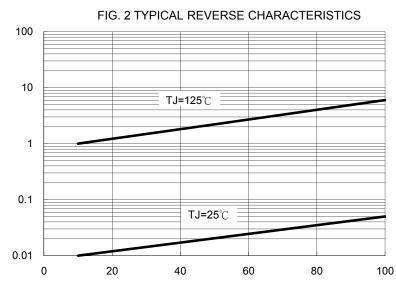
Note 1: For ABS: Packing code (Whole series with green compound)

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 $^{\circ}$ C unless otherwise noted)





PERCENT OF RATED PEAK REVERSE VOLYAGE(%)

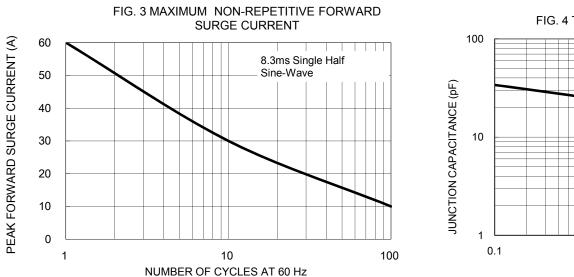


FIG. 4 TYPICAL JUNCTION CAPACITANCE

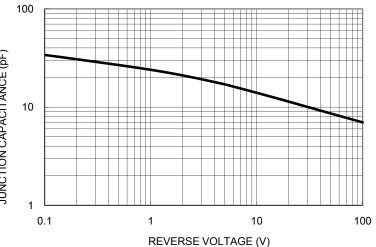
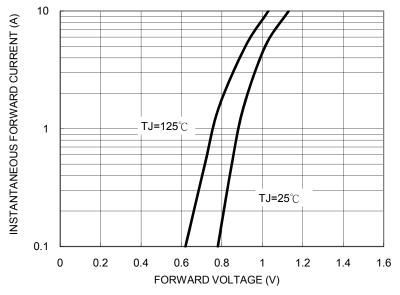
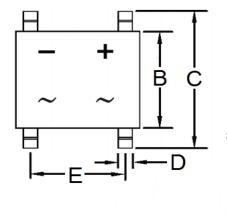


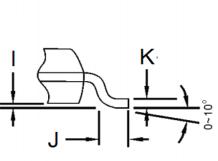


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

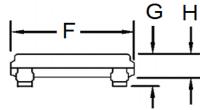


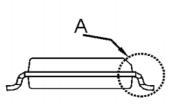
PACKAGE OUTLINE DIMENSIONS





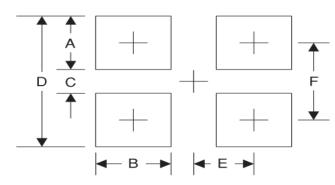
DETAIL "A", SCALE=20/1





DIM.	Unit	(mm)	Unit (inch)	
	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	0.200
G	1.40	1.60	0.055	0.063
Н	1.35	1.45	0.053	0.057
Ι	0.05	0.15	0.002	0.006
J	0.30	0.70	0.012	0.028
К	0.15	0.25	0.006	0.010

SUGGESTED PAD LAYOUT



P/N

YW

F

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



- = Specific Device Code
- = Date Code
- = Factory Code



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