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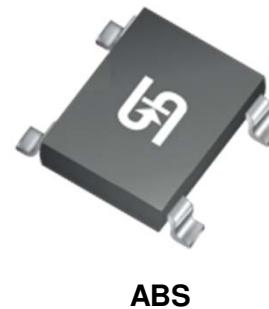
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3A, 40V - 60V Schottky Bridge Rectifiers

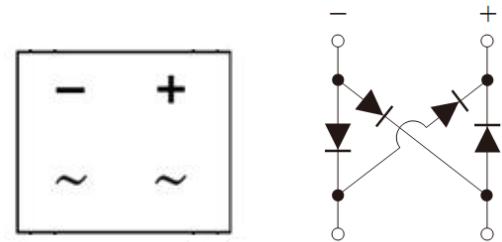
FEATURES

- Schottky technology
- Ideal for automated placement
- 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



TYPICAL APPLICATION

- General purpose use in ac-to-dc bridge full wave rectification for LED bulb, also suitable for telecommunication



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: 0.09g (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
PARAMETER	SYMBOL	SBS34	SBS36	UNIT	
Maximum repetitive peak reverse voltage	V _{RRM}	40	60	V	
Maximum RMS voltage	V _{RMS}	28	42	V	
Maximum DC blocking voltage	V _{DC}	40	60	V	
Maximum average forward rectified current	I _{F(AV)}	3			A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	80			A
Maximum instantaneous forward voltage (Note 1) I _F = 3 A	V _F	0.50	0.70	V	
Maximum DC reverse current at rated DC blocking voltage (Note 2)	I _R	0.5			mA
		10	-		
		-	10		
Rating for fusing (t<8.3ms)	I ² t	26			A ² s
Typical thermal resistance	R _{θJL} R _{θJA}	41			°C/W
		83			
Operating junction temperature range (Note 3)	T _J	- 55 to +125		- 55 to +150	°C
Storage temperature range	T _{STG}	- 55 to +150			°C

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

Note 2: Pulse test with PW=40ms

Note 3: $\frac{dP_{tot}}{dT_J} < \frac{1}{R_{th}(j-a)}$ Condition to avoid thermal runaway based on the application thermal conduction, $\delta=0.5$

ORDERING INFORMATION

PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	PACKAGE	PACKING
SBS3x (Note 1, 2)	H	RE	G	ABS	1,000 / 7" Plastic reel
		RG		ABS	5,000 / 13" Paper reel

Note 1: "x" defines voltage from 40V (SBS34) to 60V (SBS36)

Note 2: Whole series with green compound

EXAMPLE

PREFERRED PART NO.	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
SBS36HREG	SBS36	H	RE	G	AEC-Q101 qualified Green compound

RATINGS AND CHARACTERISTICS CURVES

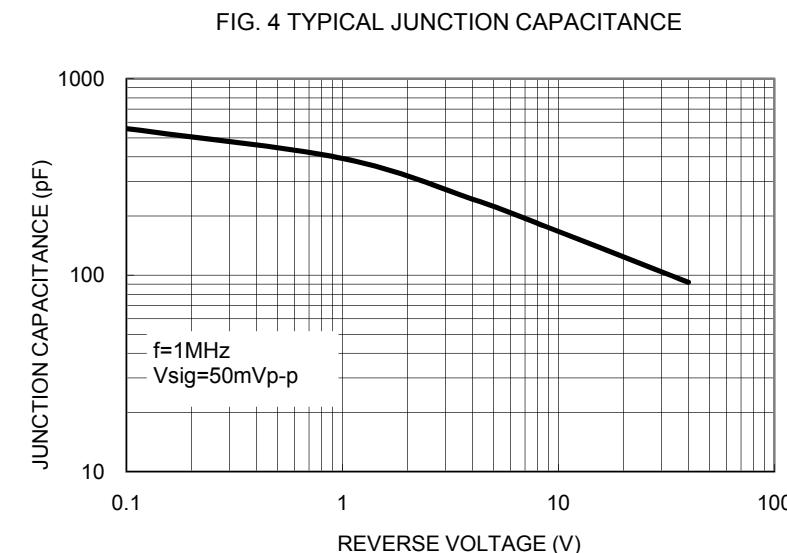
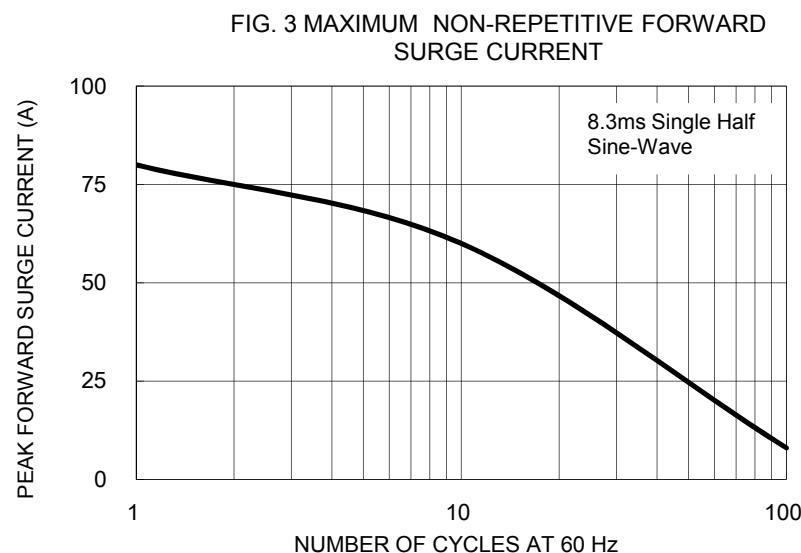
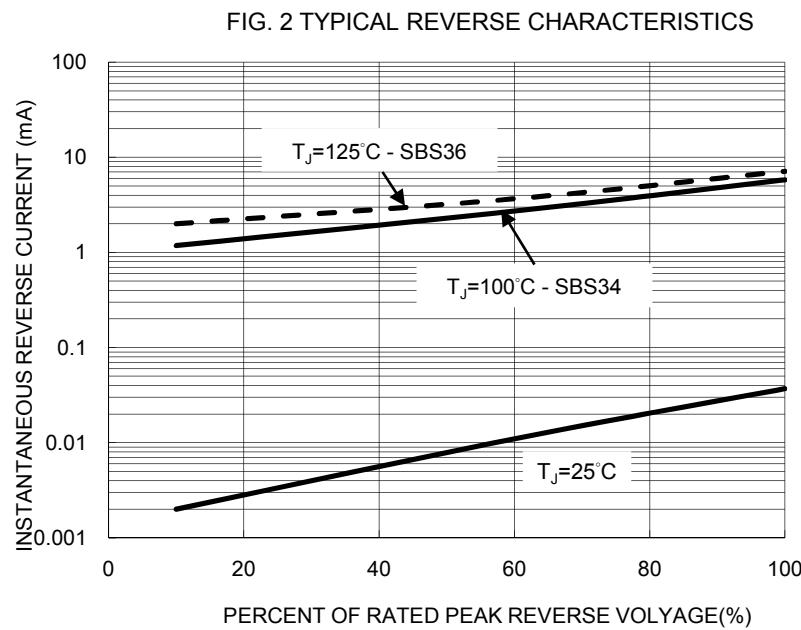
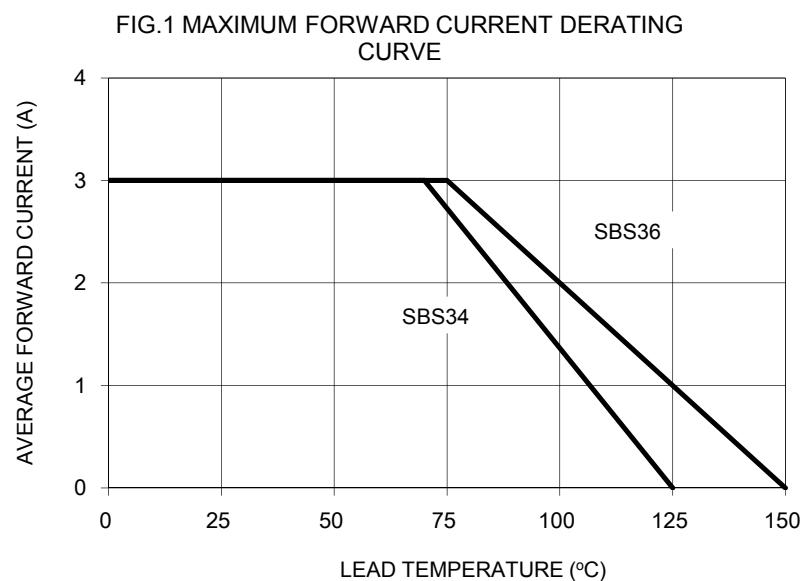
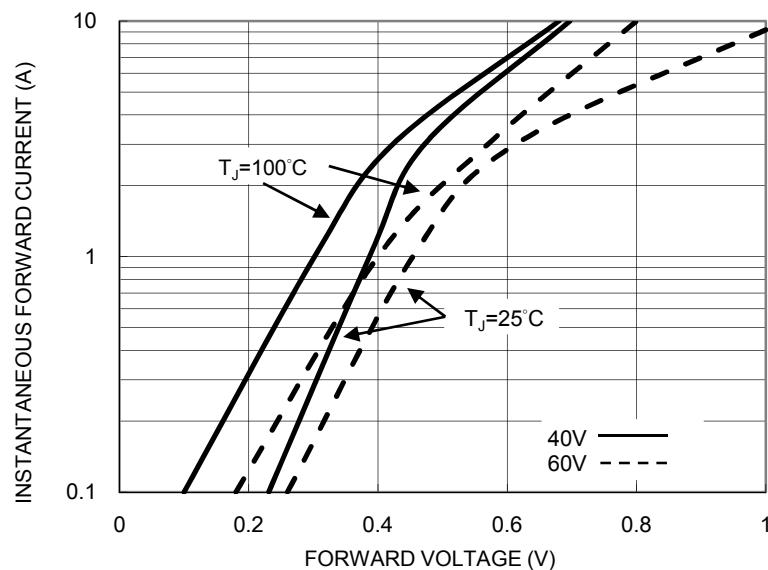
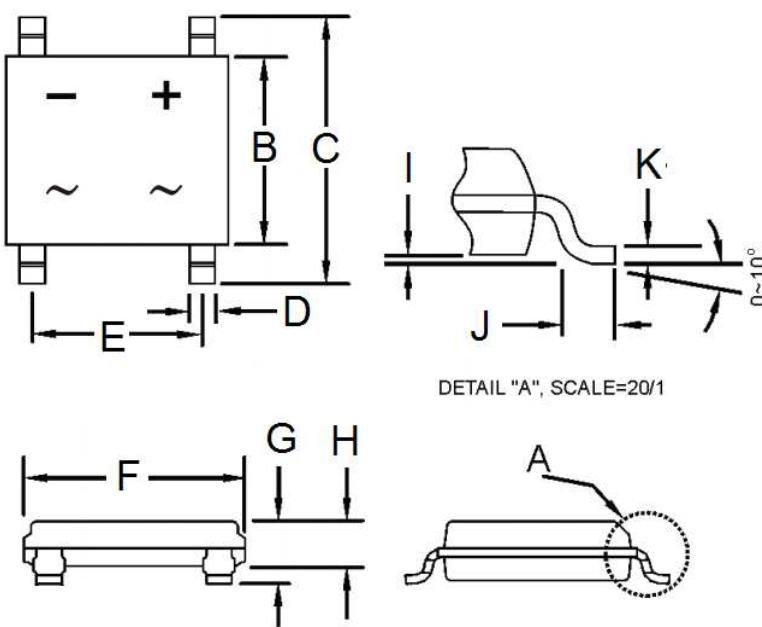
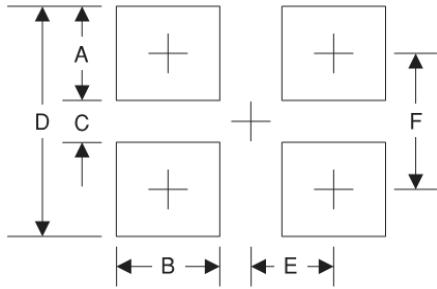
 (T_A=25°C unless otherwise noted)


FIG. 5 TYPICAL FORWARD CHARACTERISTICS

PACKAGE OUTLINE DIMENSIONS
ABS


DIM.	Unit (mm)		Unit (inch)	
	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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