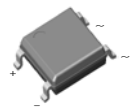
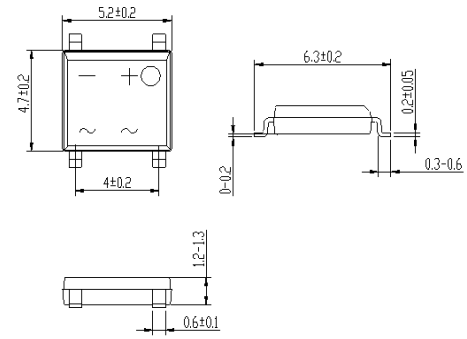
Surface Mount Schottky Bridge Rectifier

Reverse Voltage 20 to 100 Volts Forward Current 3.0 Ampere

FEATURES

- Schottky technology
- Ideal for automated placement
- 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





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

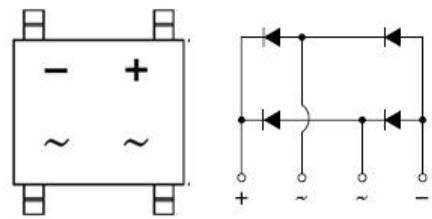
Packing code with suffix "G" means green compound (halogen-free)

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℃ unless otherwise noted)				
PARAMETER	SYMBOL	ABS34	ABS36	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) T_J=25°C	I_R	0.5		mA
T_J=100°C		10	-	
T_J=125°C		-	10	
Rating for fusing (t<8.3ms)	I^2t	26		A^2s
Typical thermal resistance	$R_{\theta JL}$ $R_{\theta JA}$	41 83		°C/W
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: $\frac{dPtot}{dTj} < \frac{1}{Rth(j-a)}$ Condition to avoid thermal runaway based on the application thermal conduction, δ=0.5

RATINGS AND CHARACTERISTIC CURVES

(TA=25℃ unless ontherwise noted)

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

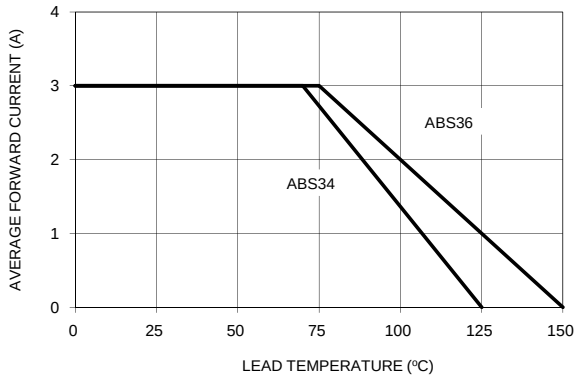


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

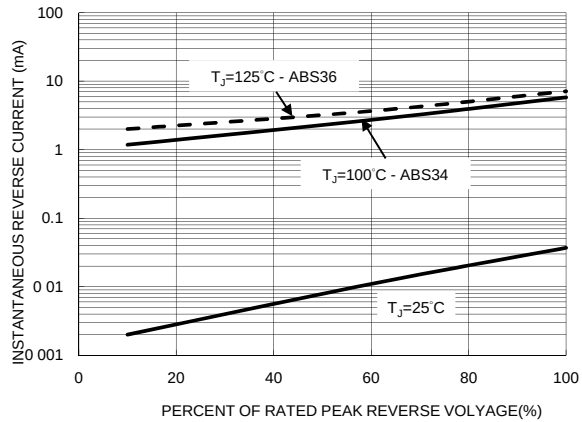


FIG. 3 MAX MUM NON-REPETITIVE FORWARD SURGE CURRENT

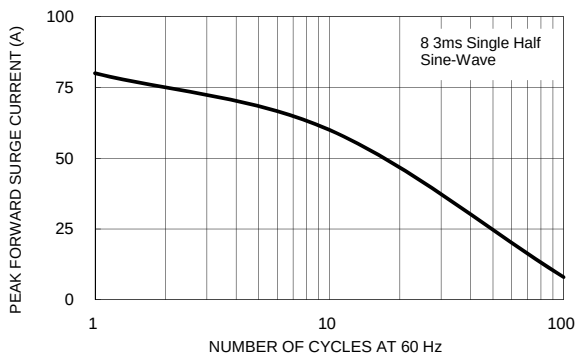


FIG. 4 TYPICAL JUNCTION CAPACITANCE

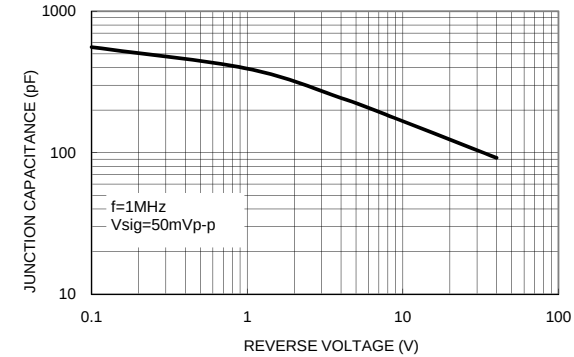


FIG. 5 TYPICAL FORWARD CHARACTERISTICS