

Small Signal Product

200mW High Voltage SMD Switching Diode

FEATURES

- Fast switching device ($t_{rr} < 4.0ns$)
- Surface mount device type
- Moisture sensitivity level 1
- Matte Tin (Sn) lead finish
- Pb free version and RoHS compliant
- Packing code with suffix "G" means green compound (halogen-free)

MECHANICAL DATA

- Case: Bend lead SOD-323 small outline plastic package
- Terminal: Matte tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- High temperature soldering guaranteed : 260°C/10s
- Polarity: Indicated by cathode band
- Weight: 4.85 ± 0.5 mg
- Marking Code: A6



SOD-323



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNITS
Power dissipation	P _D	200	mW
Mean forward current	I _O	250	mA
Non-repetitive peak forward current	I _{FRM}	Pulse Width = 1 μsec	4.0
		Pulse Width = 1 msec	1.0
Junction and storage temperature range	T _J , T _{STG}	-65 to + 150	°C

PARAMETER	SYMBOL	MIN	MAX	UNITS
Reverse Breakdown Voltage	V _(BR)	100	-	V
Forward Voltage	V _F	I _R = 100 μA	-	0.715
		I _F = 1.0 mA	-	0.855
		I _F = 10 mA	-	1.000
		I _F = 50 mA	-	1.250
Reverse Leakage Voltage	I _R	V _R = 75 V	-	1.00
		V _R = 25 V	-	0.03
Junction Capacitance	C _J	-	1.5	pF
Reverse Recovery Time	t _{rr}	-	4	ns

Small Signal Product

RATINGS AND CHARACTERISTICS CURVES

($T_A=25^\circ\text{C}$ unless otherwise noted)

Fig. 1 Typical Forward Characteristics

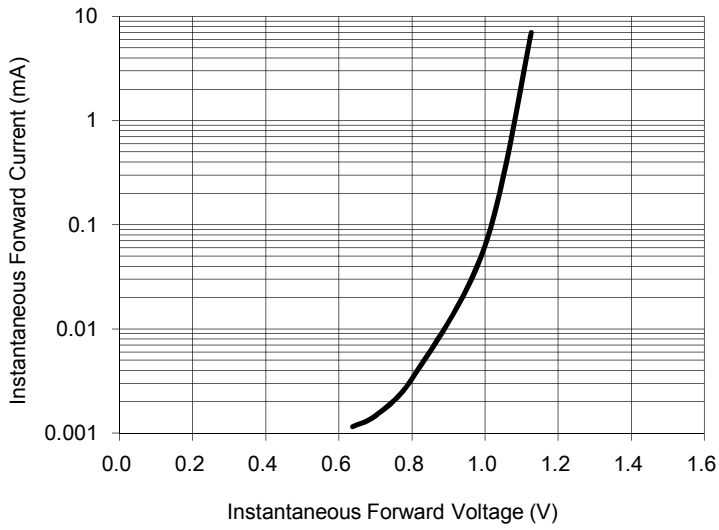


Fig. 2 Reverse Current VS. Reverse Voltage

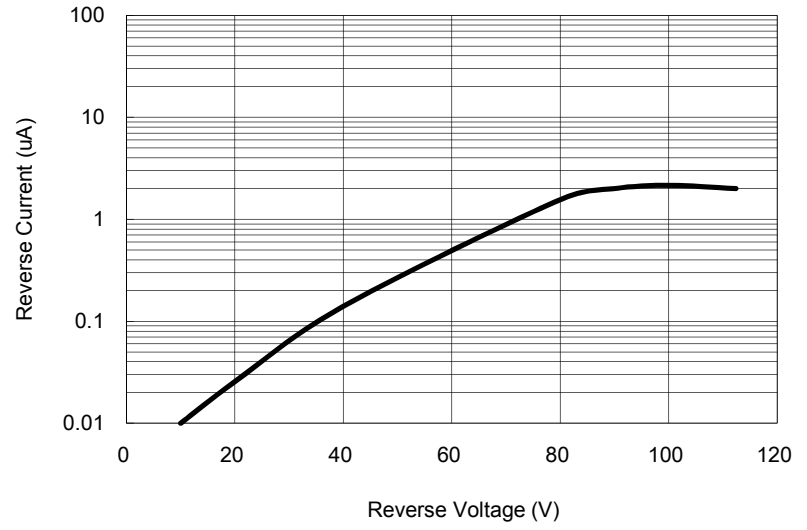


Fig. 3 Admissible Power Dissipation Curve

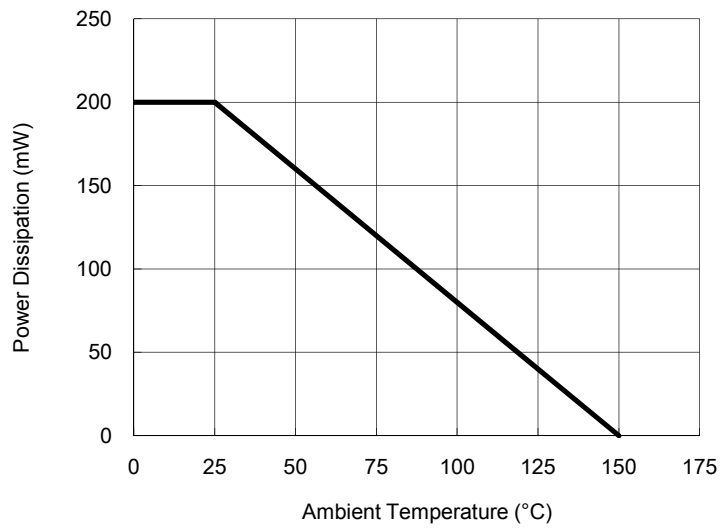
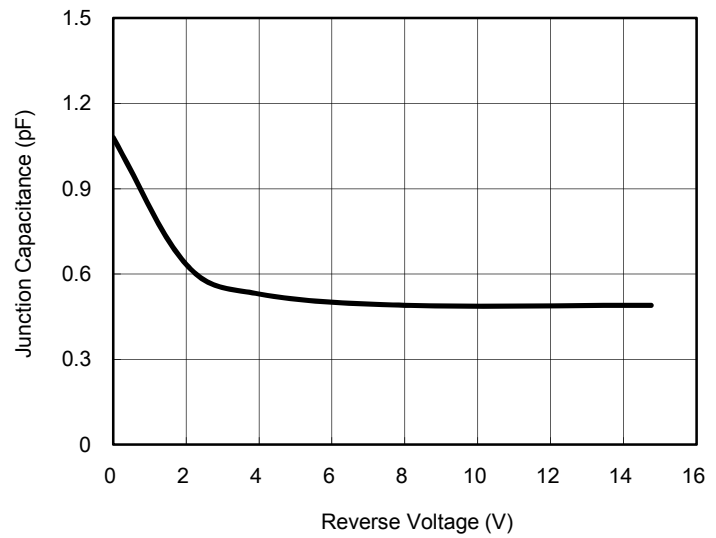


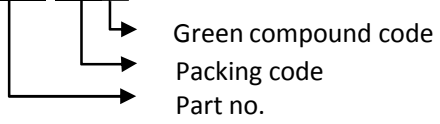
Fig. 4 Typical Junction Capacitance



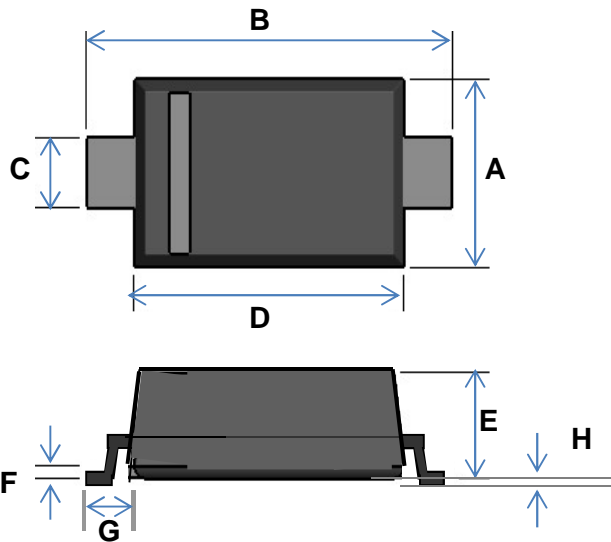
Small Signal Product

ORDER INFORMATION (EXAMPLE)

BAS316 RRG

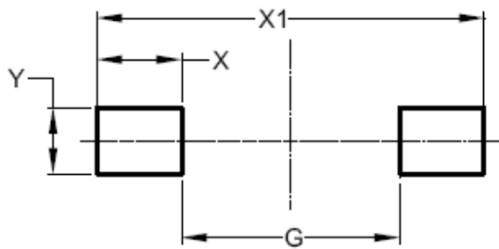


DIMENSIONS



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	1.150	1.400	0.045	0.055
B	2.300	2.700	0.091	0.106
C	0.250	0.450	0.010	0.018
D	1.600	1.800	0.063	0.071
E	0.800	1.000	0.031	0.039
F	0.050	0.177	0.002	0.007
G	0.475 REF		0.019 REF	
H	-	0.100	-	0.004

SUGGESTED PAD LAYOUT



DIM.	Unit (mm)		Unit (inch)	
	Min	Min	Min	Min
G	1.52	0.060		
X	0.59	0.023		
X1	2.70	0.106		
Y	0.45	0.018		

Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.