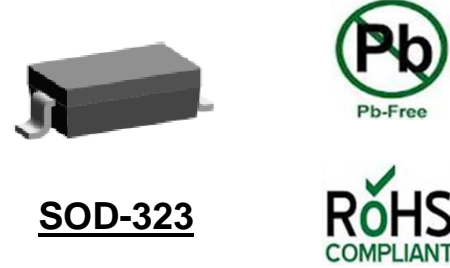


Small Signal Product

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
- Green compound (Halogen free) with suffix "G" on packing code and prefix "G" on date code



SOD-323

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



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS ($T_A=25^\circ C$ 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 μ sec	4.0
		Pulse Width = 1 msec	1.0
Junction and storage temperature range	T_J, T_{STG}	-65 to + 150	$^\circ C$

PARAMETER	SYMBOL	MIN	MAX	UNITS
Reverse Breakdown Voltage	$V_{(BR)}$	100	-	V
Forward Voltage	V_F	$I_R = 100 \mu A$	-	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

ORDERING INFORMATION					
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	MANUFACTURE CODE
BAS316	RR	Suffix "G"	SOD-323	3000 / 7" Reel	(Note)

Note 1: Manufacture special control, if empty means no special control requirement.

Note 2: For BAS316: Whole series with green compound

EXAMPLE					
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	MANUFACTURE CODE	DESCRIPTION
BAS316 RRG	BAS316	RR	G		Green compound
BAS316 RRG	BAS316	RR	G	D0	Green compound

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

Fig. 1 Typical Forward Characteristics

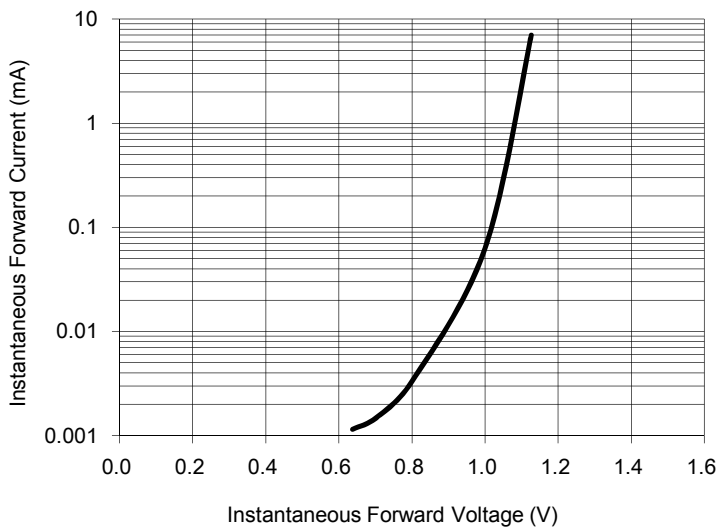


Fig. 2 Reverse Current VS. Reverse Voltage

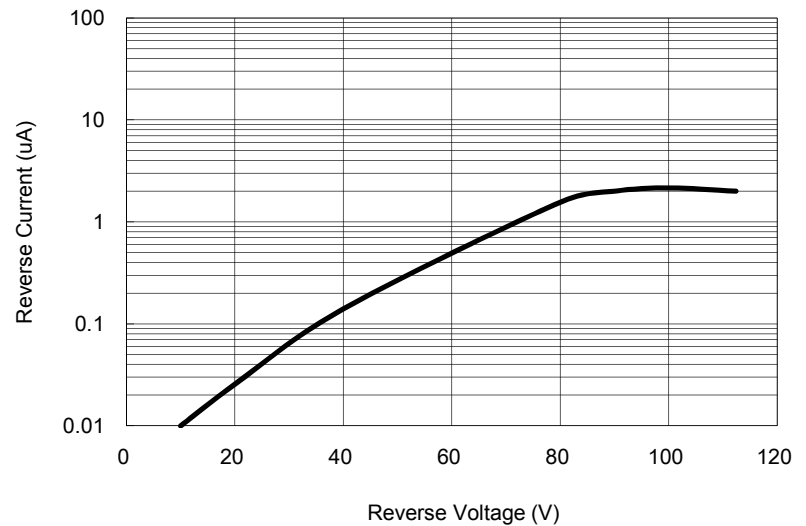


Fig. 3 Admissible Power Dissipation Curve

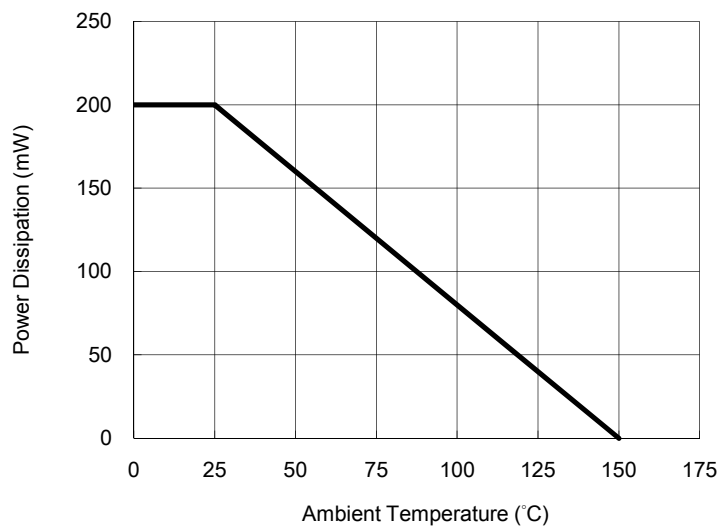
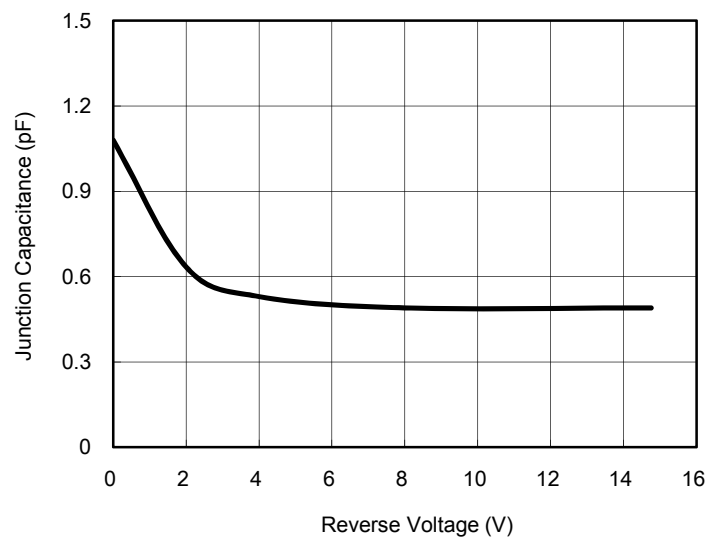
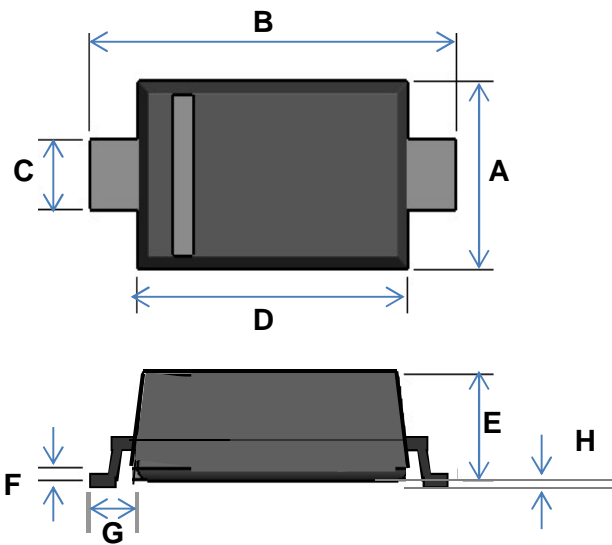


Fig. 4 Typical Junction Capacitance



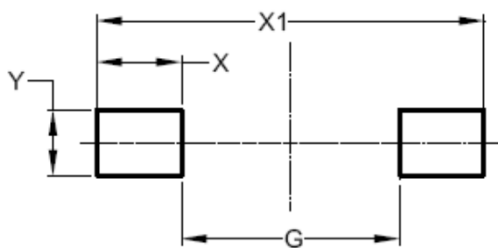
Small Signal Product

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
G	1.52	0.060
X	0.59	0.023
X1	2.70	0.106
Y	0.45	0.018