

200mW High-Speed Switching SMD Diode

FEATURES

- Fast switching device (trr<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: Flat lead SOD-323F 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: 4.6 ± 0.5 mgMarking Code: W2











MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)				
PARAMETER	SYMBOL	VALUE	UNIT	
Power Dissipation	P _D	200	mW	
Average Forward Current	I _O	250	mA	
Non-Repetitive Peak Forward Surge Current Pulse Width = 1 μs	1	4.0		
Pulse Width = 1 ms	IFRM	1.0	A	
Operating Junction Temperature	TJ	150	°C	
Storage Temperature Range	T _{STG}	-65 to + 150	°C	

PAR/	SYMBOL	MIN	MAX	UNIT	
Reverse Breakdown Voltage	I _R = 100 μA	$V_{(BR)}$	100	-	V
	I _F = 1.0 mA		-	0.715	V
	$I_F = 10 \text{ mA}$		-	0.855	
Forward Voltage	$I_F = 50 \text{ mA}$	V _F	-	1.000	
	$I_F = 150 \text{ mA}$		-	1.250	
Dayaraa Laakaga Valtaga	V _R = 75 V	,	-	1	μA
Reverse Leakage Voltage	$V_R = 25 \text{ V}$	I _R		0.03	
Junction Capacitance $V_R = 0$, $f = 1.0 \text{ MHz}$		C _J	-	1.5	pF
Reverse Recovery Time $I_F = I_R = 10 \text{ mA}$, $I_{rr} = 0.1 \times I_R$		t _{rr}	-	4.0	ns



RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

25 0

0.2

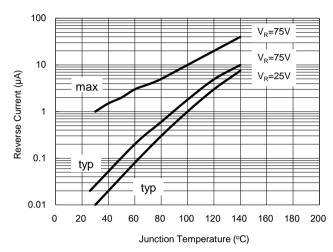
300 275 250 225 200 175 150

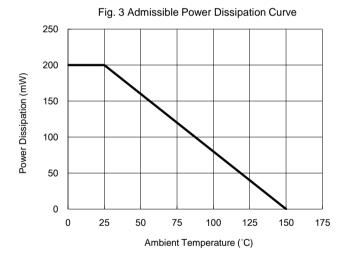
Fig. 1 Typical Forward Characteristics

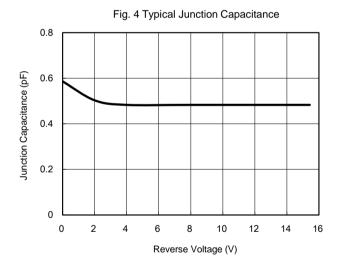
Instantaneous Forward Voltage (V)

Instantaneous Forward Current (mA) 125 100 75 50

Fig. 2 Reverse Current As A Function of Junction Temperature

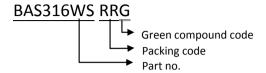




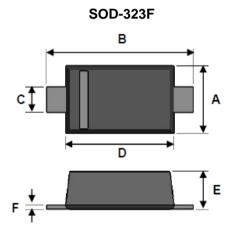




ORDER INFORMATION (EXAMPLE)

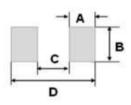


DIMENSIONS



DIM.	Unit (mm)		Unit (inch)		
	Min	Max	Min	Max	
Α	1.15	1.35	0.045	0.053	
В	2.30	2.80	0.091	0.110	
С	0.25	0.40	0.010	0.016	
D	1.60	1.80	0.063	0.071	
Е	0.80	1.10	0.031	0.043	
F	0.05	0.25	0.002	0.010	

SUGGESTED PAD LAYOUT



DIM.	Unit(mm)	Unit(inch)
DIIVI.	Тур.	Тур.
Α	0.630	0.025
В	0.830	0.033
С	1.600	0.063
D	2.860	0.113

Note: 1. The suggested land pattern dimensions have been provided for reference only, as actual pad layouts may vary depending on application.

Version: C1603





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