

## ► Features

- $V_R$  40V/30V/20V
- $I_{F(AV)}$  350mA
- For use in low voltage, high frequency inverters
- Free wheeling, and polanty protection applications

## ► Applications

For use in low voltage high frequency circuit signals.

## ► Mechanical Data

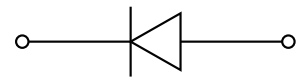
- Case: SOD-323  
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Cathode line denotes the cathode end

## ► Maximum Ratings (Ta=25°C Unless otherwise specified)

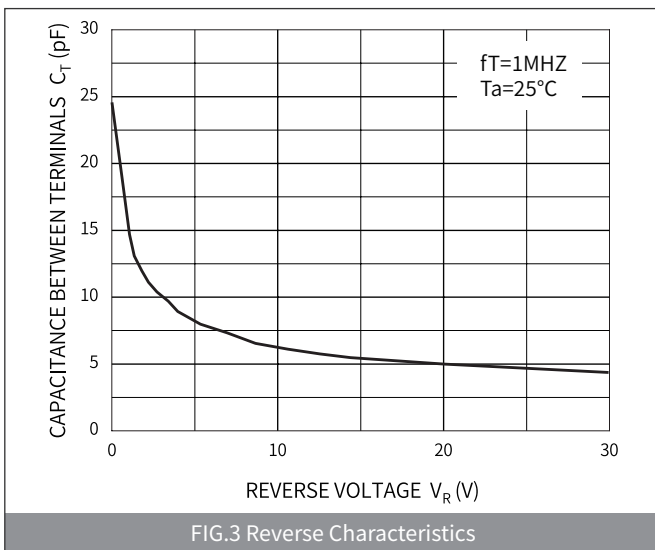
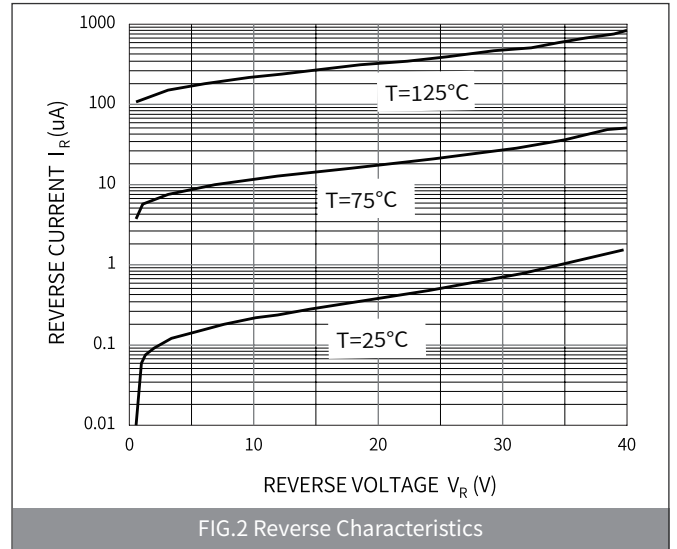
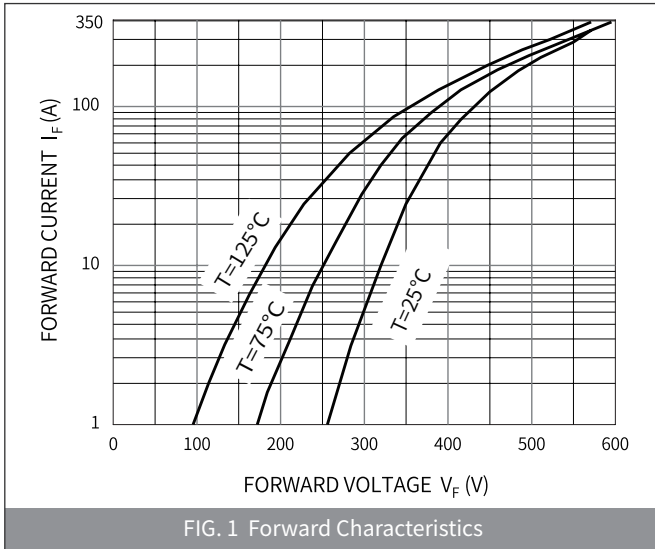
PARAMETER	SYMBOL	UNIT	SD103AWS	SD103BWS	SD103CWS
Maximum repetitive peak reverse voltage	$V_{RRM}$	V	40	30	20
Maximum RMS Voltage	$V_{RMS}$	V	28	21	14
Reverse Breakdown voltage@ $I_R=100\mu A$	$V_{(BR)R}$	V	40	30	20
Maximum Average Forward Rectified Current	$I_{F(AV)}$	mA	350		
Non-repetitive Peak Forward Surge Current @t=8.3ms Half-sine wave	$I_{FSM}$	A	1.5		
Power Dissipation	$P_d$	mW	200		
Storage temperature	$T_{stg}$	°C	-55~+125		
Junction temperature	$T_j$	°C	-55 ~+150		
Typical Thermal Resistance	$R_{\theta J-A}$	°C /W	500		

## ► Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	TEST CONDITIONS		SYMBOL	UNIT	SD103AWS	SD103BWS	SD103CWS
Maximum instantaneous forward voltage	$I_F=20mA$		$V_{F1}$	V	0.37		
	$I_F=200mA$		$V_{F2}$		0.60		
Maximum Reverse current	SD103AWS	$V_R=30V, T_A=25^\circ C$	$I_R$	$\mu A$	5.0		
	SD103BWS	$V_R=20V, T_A=25^\circ C$					
	SD103CWS	$V_R=10V, T_A=25^\circ C$					
Typical junction capacitance	$V_R=0V, f=1MHz$		$C_J$	pF	120		

**SOD-323**


► **Ratings And Characteristics Curves** ( $T_a=25^\circ\text{C}$  Unless otherwise specified)



### Ordering Information

PACKAGE	PACKAGE CODE	UNIT WEIGHT(g)	REEL(pcs)	BOX(pcs)	CARTON(pcs)	DELIVERY MODE
SOD-323	R1	0.0048	3000	30000	120000	7"

### Package Outline Dimensions (SOD-323)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	1.60	1.80	0.063	0.071
B	0.25	0.40	0.010	0.016
C	2.30	2.80	0.091	0.110
D	0.80	1.10	0.031	0.043
D <sub>1</sub>	0.80	0.90	0.031	0.035
E	1.20	1.40	0.047	0.055
F	0.08	0.18	0.003	0.007
L	0.475REF		0.019REF	
L <sub>1</sub>	0.25	0.40	0.010	0.016
H	-	0.14	-	0.006

### Suggested Pad Layout

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
J	0.80	-	0.031	-
K	-	1.40	-	0.055
M	0.80	-	0.031	-

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