

► Features

- V_R 30V
- $I_{F(AV)}$ 1A
- 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

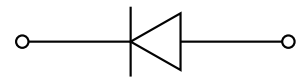
- Case: SOD-123
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Cathode line denotes the cathode end

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

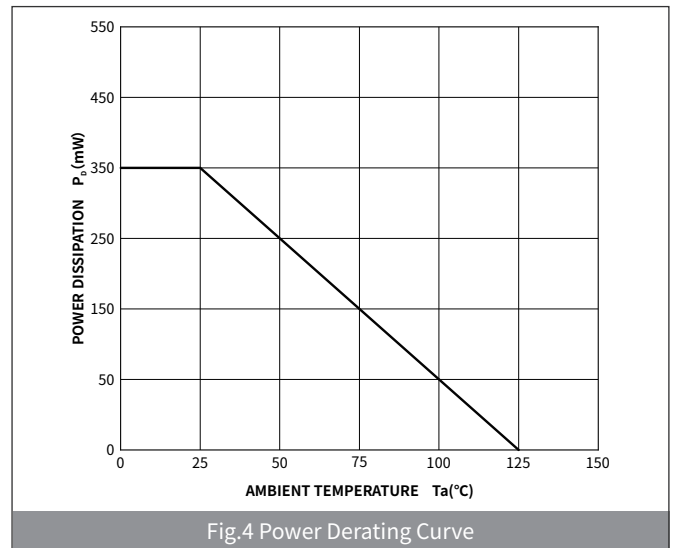
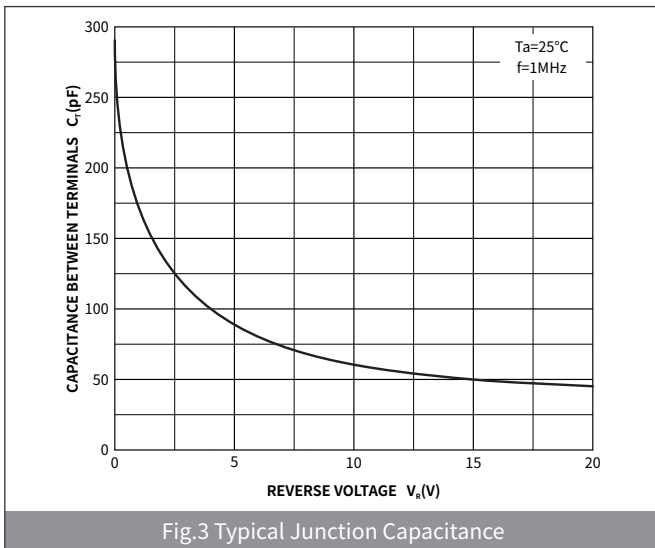
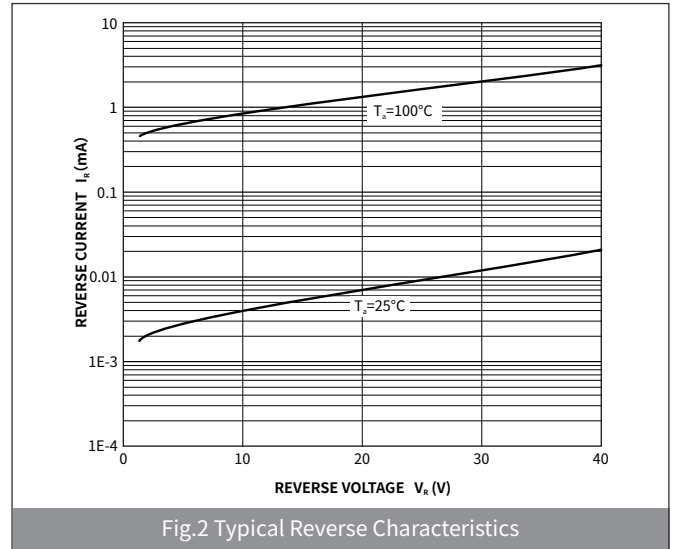
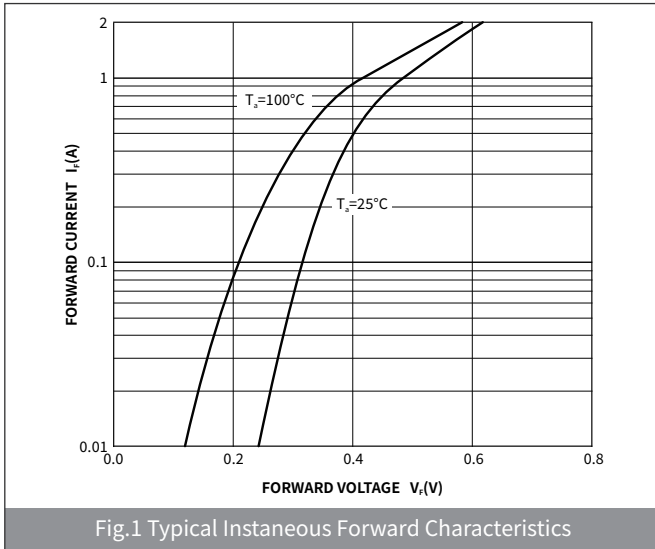
PARAMETER	SYMBOL	UNIT	VALUE
Maximum repetitive peak reverse voltage	V_{RRM}	V	30
Maximum RMS Voltage	V_{RMS}	V	28
Maximum DC blocking Voltage	V_{DC}	V	30
Maximum Average Forward Rectified Current	$I_{F(AV)}$	A	1.0
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I_{FSM}	A	30
Power Dissipation	P_d	mW	350
Storage temperature	T_{stg}	°C	-40 ~+150
Junction temperature	T_j	°C	125
Typical Thermal Resistance	$R_{\theta J-A}$	°C /W	222

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

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	Min	Typ	Max
Maximum instantaneous forward voltage	$I_F=500mA$	V_F	V	—	—	0.46
	$I_F=1000mA$			—	—	0.48
Maximum reverse current	$V_R=15V$	I_R	mA	—	—	0.02
	$V_R=30V$			—	—	0.05

SOD-123


► **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-123	R1	0.012	3000	30000	120000	7"

▶ Package Outline Dimensions (SOD-123)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	3.55	3.85	0.140	0.152
B	2.55	2.85	0.100	0.112
C	1.40	1.80	0.055	0.071
D	0.95	1.35	0.140	0.152
E	0.51	0.71	0.037	0.053
F	-	0.15	-	0.006
G	0.15	0.45	0.006	0.008
H	0.08	0.25	0.003	0.010
θ	-	8°	-	8°

▶ Suggested Pad Layout

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
J	0.91	-	0.036	-
K	-	2.36	-	0.092
M	1.22	-	0.048	-

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