

**SOD-123**

**Marking: T4**
**Features**

Fast Switching Device (TRR <4.0 nS)  
 Power Dissipation of 400mW  
 High Stability and High Reliability  
 Low reverse leakage  
 Halogen free and RoHS compliant

**Mechanical Data**

SOD-123 Small Outline Plastic Package  
 Polarity: Color band denotes cathode end  
 Epoxy UL: 94V-0  
 Mounting Position: Any

**Maximum Ratings & Thermal Characteristics**

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Reverse Voltage	$V_R$	75	V
Peak Reverse Voltage	$V_{RM}$	100	V
Power Dissipation	$P_d$	400	mW
Operating junction temperature	$T_j$	150	°C
Storage temperature range	$T_{STG}$	-65-+150	°C
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	250	°C/W
Average Rectified Current	$I_o$	150	mA
Non-repetitive Peak Forward Current	$I_{FM}$	300	mA
Peak Forward Surge Current @ $t_p=1\mu s$ ; $T_A=25^\circ C$	$I_{FSM}$	2.0	A

Valid provided that electrodes are kept at ambient temperature.

**Electrical Characteristics**

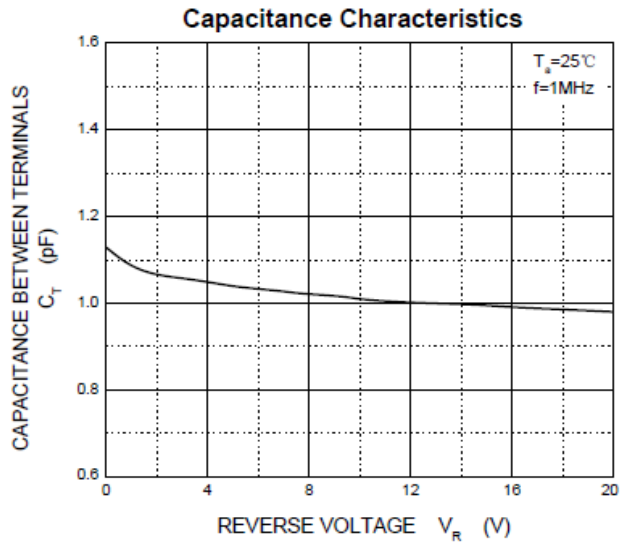
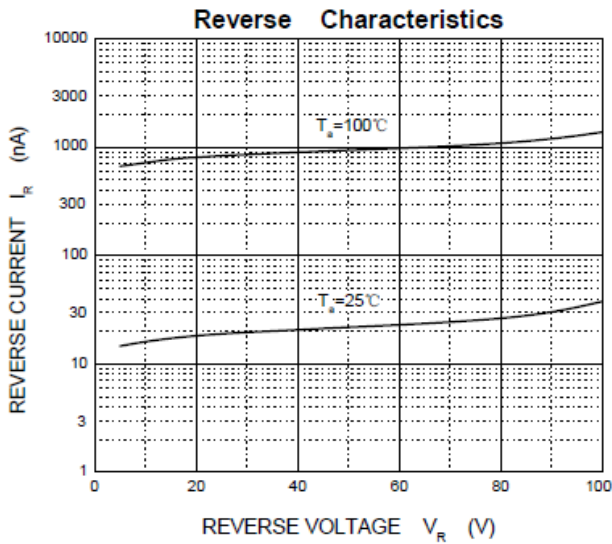
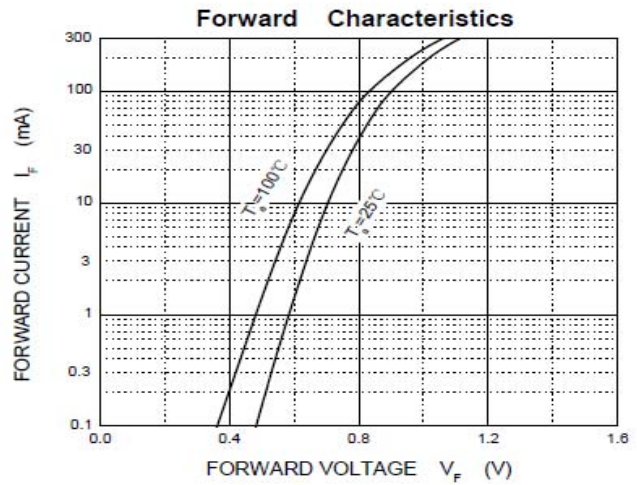
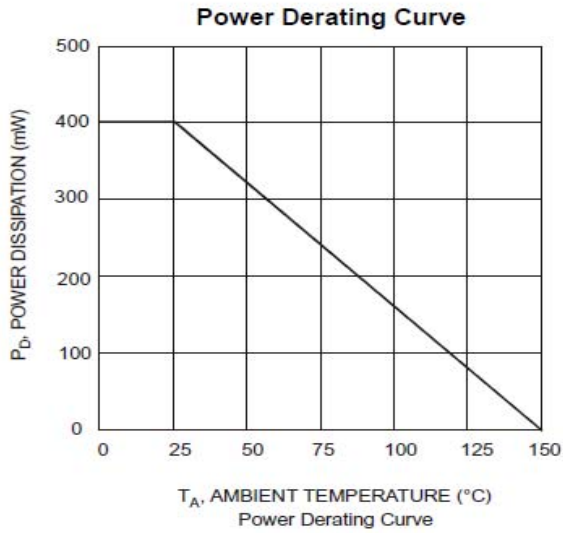
(Ratings at 25°C ambient temperature unless otherwise specified).

Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
BV	Breakdown Voltage	$I_R=100\mu A$	100		V
		$I_R=5\mu A$	75		
IR	Reverse Leakage Current	$V_R=20V$	---	25	nA
		$V_R=75$	---	5	uA
VF	Forward Voltage	$I_F=10mA$	---	1.00	V
		$I_F=100mA$	---	1.25	
TRR	Reverse Recovery Time	$I_F = I_R = 10mA,$	---	4	nS
		$I_{rr}=0.1 \times I_R$			
		$R_L=100\Omega$			
C	Capacitance	$V_R=0V, f=1MHz$	---	4	pF

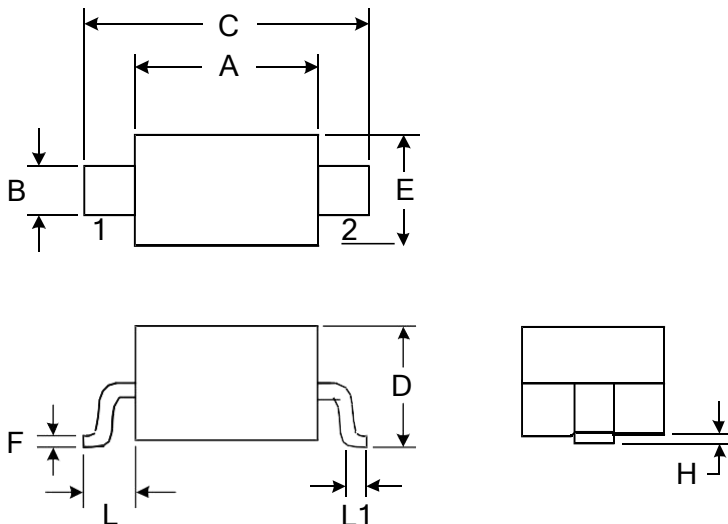
**Summary of Packing Options**

Package	Packing Description	Packing Quantity	Industry Standard
SOD-123	Tape/Reel, 7" reel	3000	EIA-481-1

## Ratings and Characteristic Curves



## Package Outline Dimensions: SOD-123



DIMENSIONS				
SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	2.600	2.800	0.102	0.110
B	0.450	0.650	0.018	0.026
C	3.550	3.850	0.139	0.152
D	1.050	1.250	0.041	0.049
E	1.500	1.700	0.059	0.067
F	0.080	0.150	0.003	0.006
L	0.500 REF		0.020REF	
L1	0.250	0.450	0.010	0.018
H	0.000	0.100	0.000	0.004

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