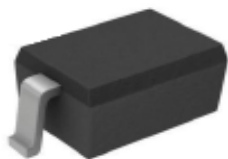


SOD-323

Marking: T4
Features

Fast Switching Device (TRR <4.0 nS)
 Power Dissipation of 200mW
 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	71	V
Peak Reverse Voltage	V_{RM}	100	V
Power Dissipation	P_d	200	mW
Operating junction temperature	T_j	125	°C
Storage temperature range	T_s	-55+150	°C
Working Inverse Voltage	W_{IV}	75	V
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

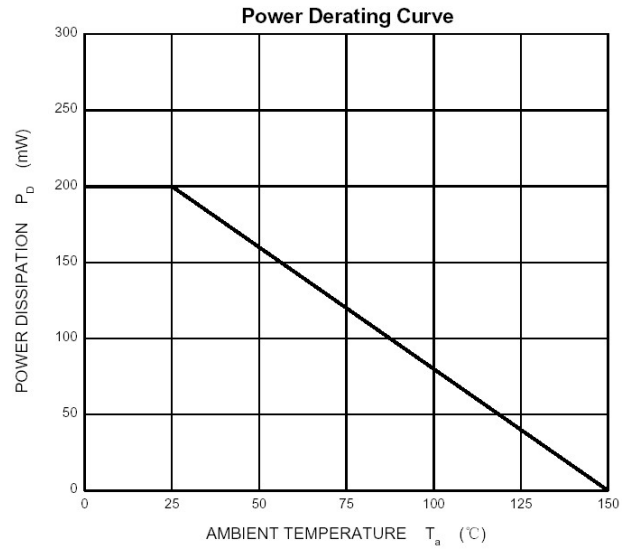
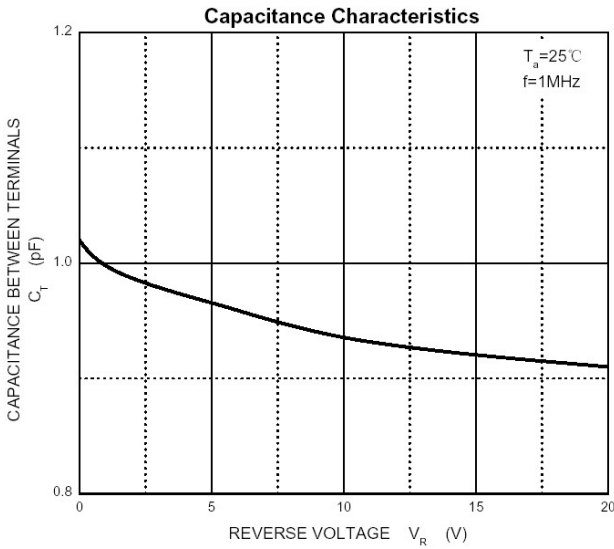
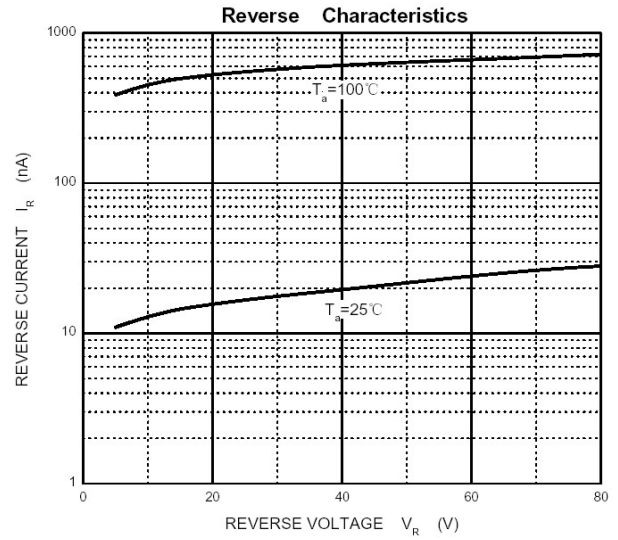
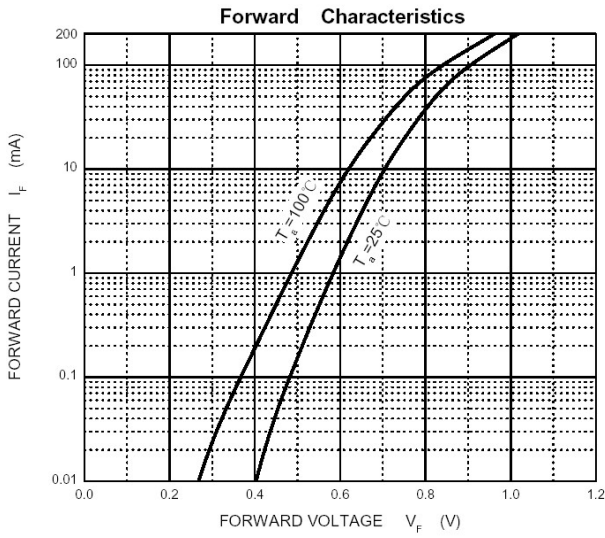
(Ratings at 25°C ambient temperature unless otherwise specified).

Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
BV	Breakdown Voltage	$I_R=100\mu A$	100		V
	Breakdown Voltage	$I_R=5\mu A$	75		
IR	Reverse Leakage Current	$V_R=20V$	---	25	nA
	Reverse Leakage Current	$V_R=75$	---	1	uA
VF	Forward Voltage	$I_F=1.0mA$	---	0.715	V
	Forward Voltage	$I_F=10mA$	---	0.855	
	Forward Voltage	$I_F=50mA$	---	1.00	
	Forward Voltage	$I_F=150mA$	---	1.25	
TRR	Reverse Recovery Time	$I_F=I_R=10mA$	---	4	nS
	Reverse Recovery Time	$R_L=100\Omega$			
	Reverse Recovery Time	$I_{RR}=0.1 \times I_R$			
CT	Capacitance	$V_R=0V, f=1MHz$	---	2	pF
	Capacitance				

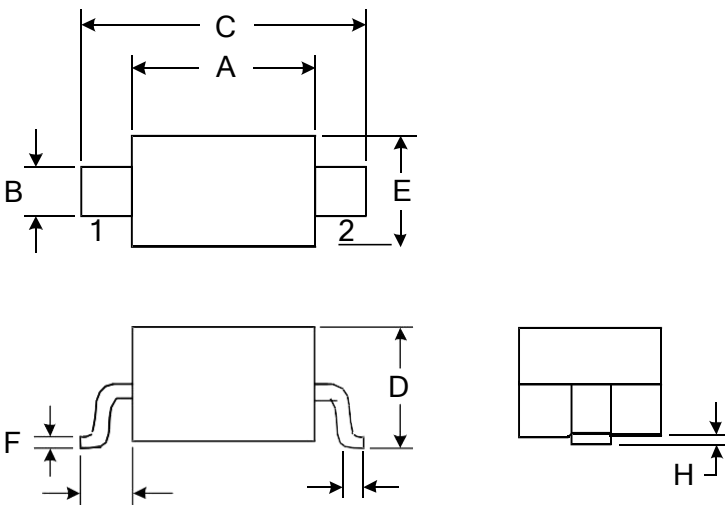
Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
SOD-323	Tape/Reel, 7" reel	3000	EIA-481-1

Ratings and Characteristic Curves



Package Outline Dimensions: SOD-323



DIMENSIONS				
SYMBOL	MILLIMETER		INCHES	
	MIN	MAX	MIN	MAX
A	1.600	1.800	0.063	0.071
B	0.250	0.350	0.010	0.014
C	2.500	2.700	0.098	0.106
D		1.000		0.039
E	1.200	1.400	0.047	0.055
F	0.080	0.150	0.003	0.006
L	0.500 REF		0.020REF	
L1	0.250	0.400	0.010	0.016
H	0.000	0.100	0.000	0.004