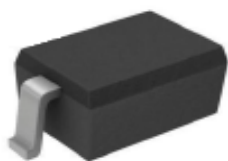


SOD-323



Marking: T3

Features

Fast Switching Device (TRR <50nS)
Power Dissipation of 500mW
High Stability and High Reliability
Low reverse leakage
Halogen free and RoHS compliant

Mechanical Data

SOD-323 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	VR	250	V
Peak Reverse Voltage	VRM	250	V
Power Dissipation	Pd	250	mW
Operating junction temperature	Tj	150	°C
Storage temperature range	Ts	-65~+150	°C
Working Inverse Voltage	WIV	75	V
Average Rectified Current	IO	200	mA
Non-repetitive Peak Forward Current	IFM	400	mA
Peak Forward Surge Current @tp=1ms; TA=25°C	IFSM	1.7	A

Valid provided that electrodes are kept at ambient temperature.

Electrical Characteristics

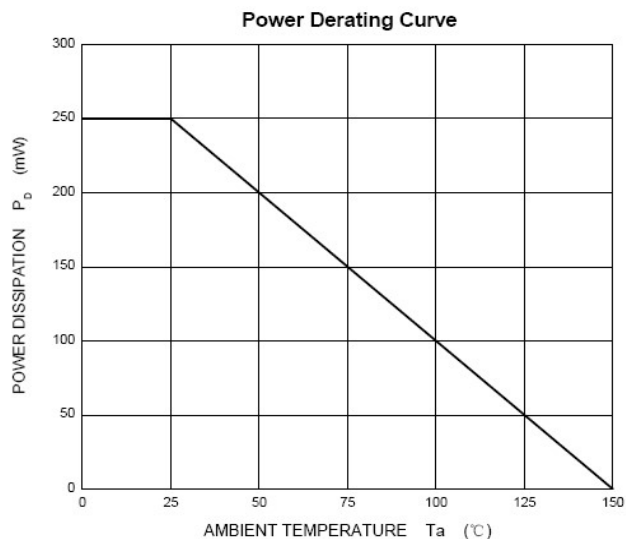
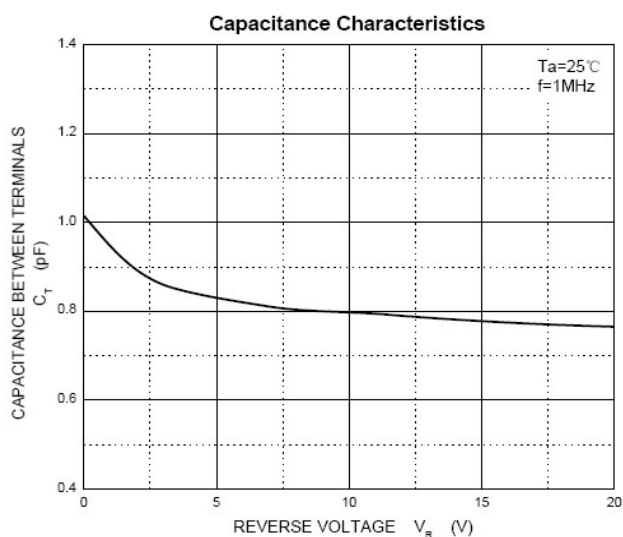
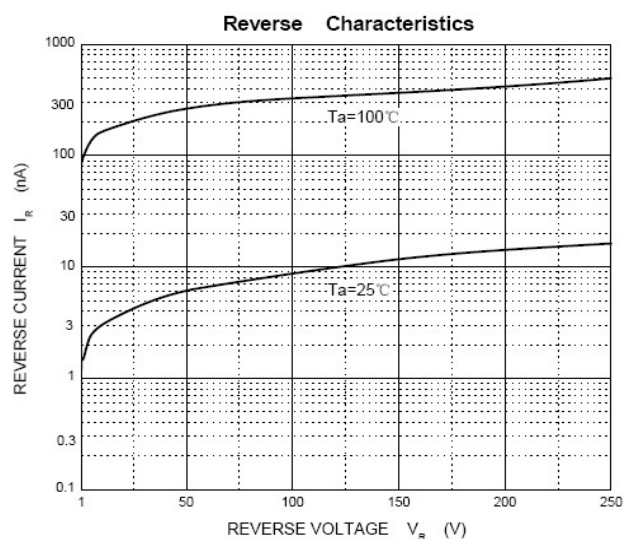
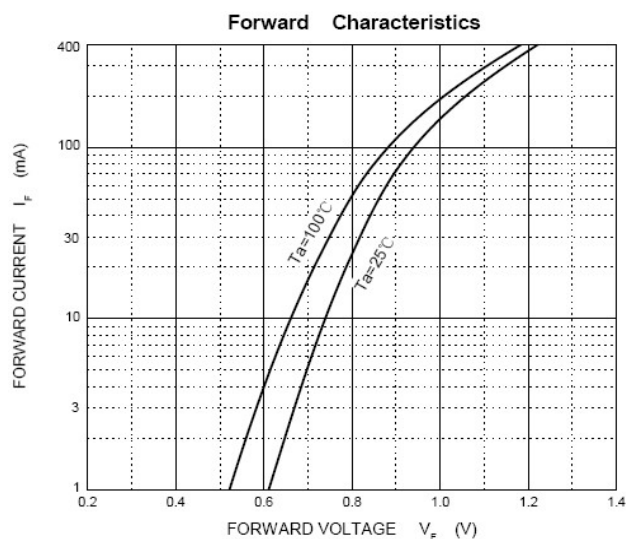
(Ratings at 25°C ambient temperature unless otherwise specified.)

Symbols	Parameter	Test Condition	Limits		Unit
			Min	Max	
VRB	Reverse Voltage	IB=100uA	250	---	V
IR	Reverse Leakage Current	VR=200V	---	0.1	uA
VF	Forward Voltage	IF=100mA	---	1.00	V
		IF=200mA	---	1.25	
TRR	Reverse Recovery Time	IF= 30mA, IR=30mA RL=100Ω IRR=3mA	---	50	nS
C	Capacitance	VR=0V, f=1MHZ	---	5	pF

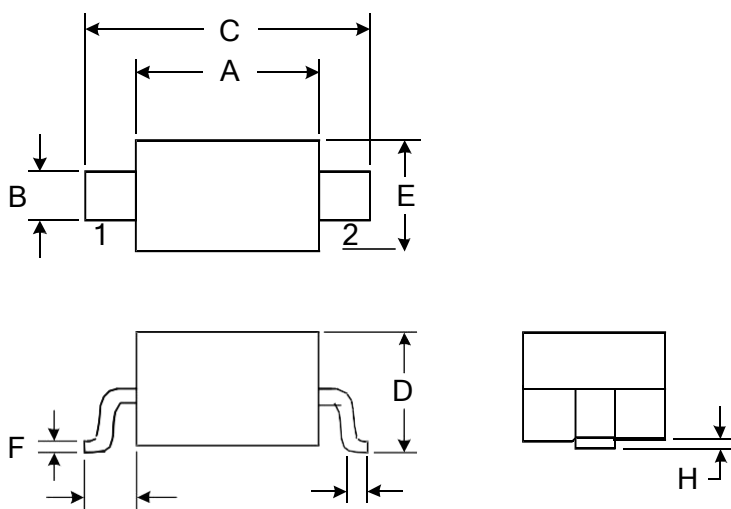
Summary of Packing Options

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