

Fast Switching Diode

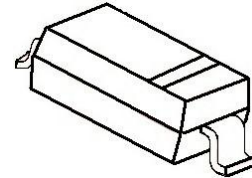
General description

250mW SOD-323 Fast Switching Diode

SOD-323 Package

FEATURES

- Fast Switching Device
- Power Dissipation of 250mW
- High Stability and High Reliability
- Low reverse leakage
- Epoxy UL: 94V-0



Marking: A

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

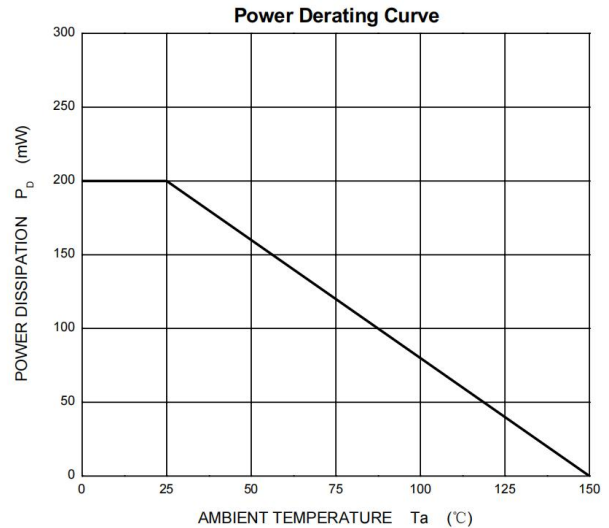
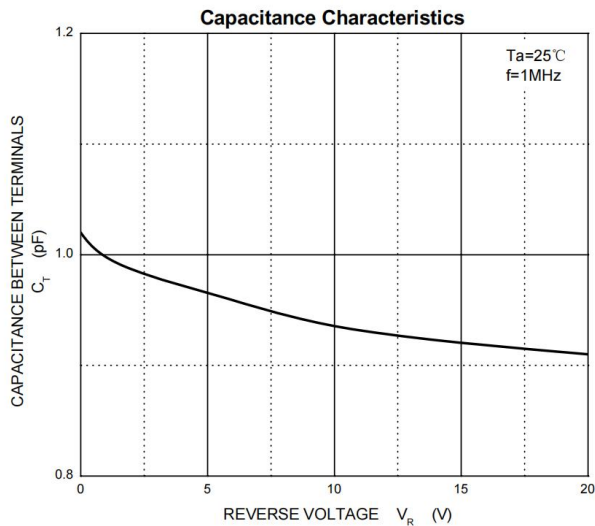
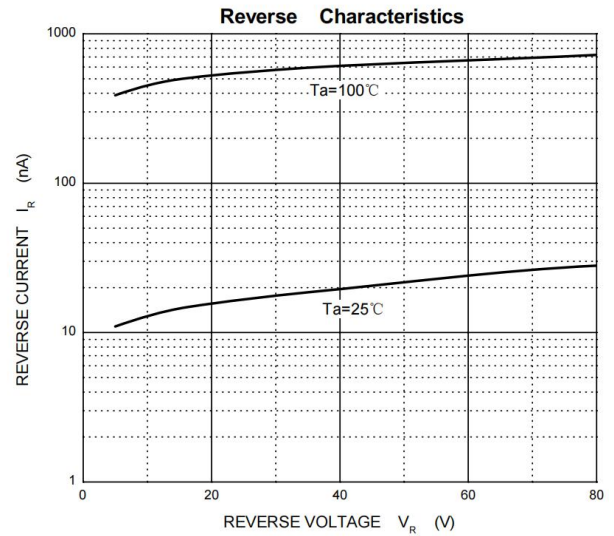
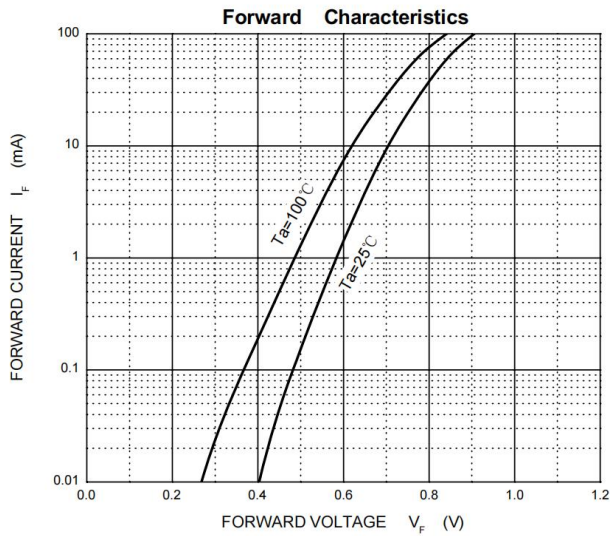
Parameters	Symbol	Value	Unit
Reverse Voltage	V_R	90	V
Peak Reverse Voltage	V_{RM}	80	V
Power Dissipation	P_d	250	mW
Operating junction temperature	T_j	150	°C
Storage temperature range	T_s	-55-+150	°C
Average Rectified Current	I_o	100	mA
Non-repetitive Peak Forward Current	I_{FM}	225	mA

Valid provided that electrodes are kept at ambient temperature.

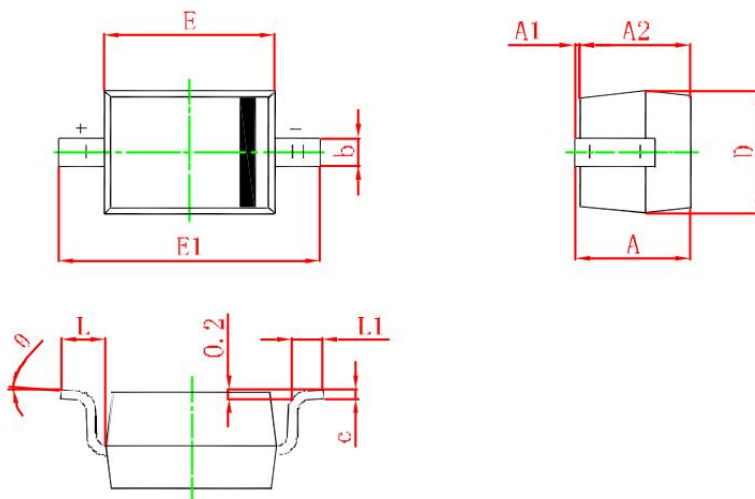
Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

Parameter	Symbols	Test Condition	Limits		Unit
			Min	Max	
Reverse Leakage Current	I_R	$V_R=80V$		0.1	uA
Forward Voltage	V_F	$I_F=100mA$		1.20	V
Reverse Recovery Time	T_{RR}	$I_F=10mA, R_L=100\Omega, V_R=6V$		4	nS
Capacitance	C_T	$V_R=0.5V, f=1MHz$		3	pF

Typical Characteristics



SOD-323 PACKAGE OUTLINE Plastic surface mounted package



Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°

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