

FAST SWITCHING DIODE

Features

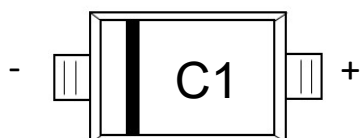
- Small Package
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance



SOD-323 top view



Schematic diagram



Marking and pin assignment



Pb-Free



Halogen-Free

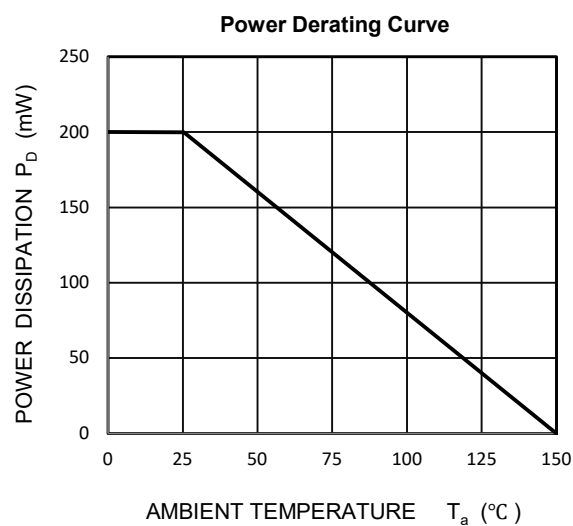
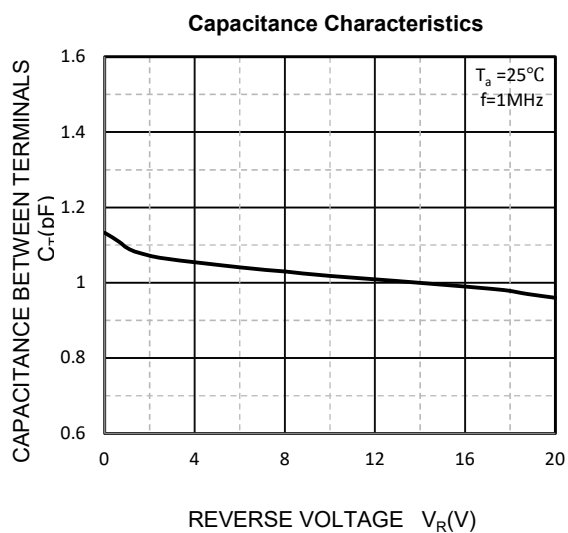
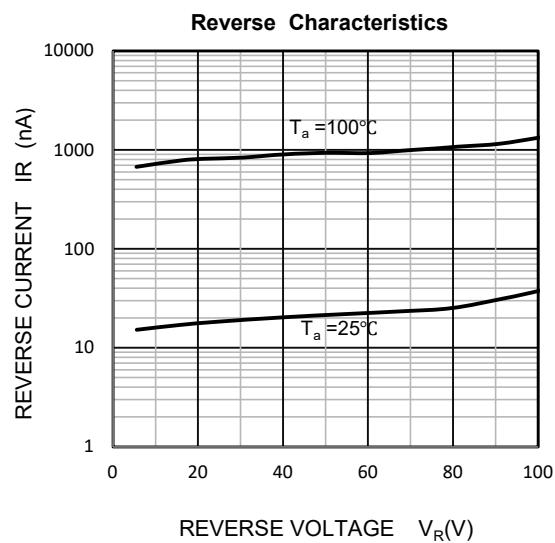
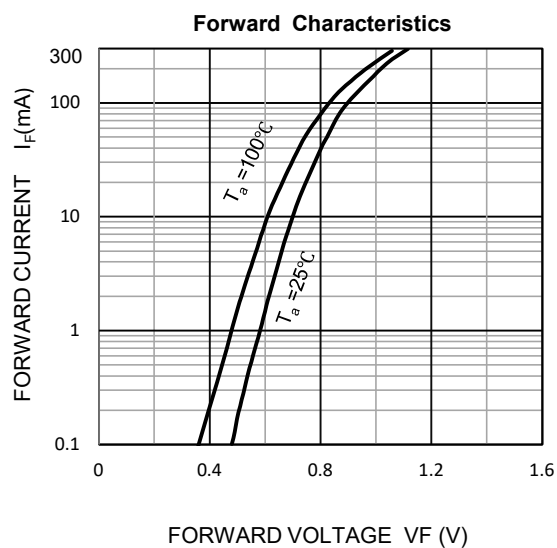
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Symbol	Parameter	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	85	V
V_R	Reverse Voltage	80	V
I_O	Average forward current	100	mA
I_{FM}	Forward Continuous Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@t= 10ms	1	A
P_D	Power Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	625	°C/W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

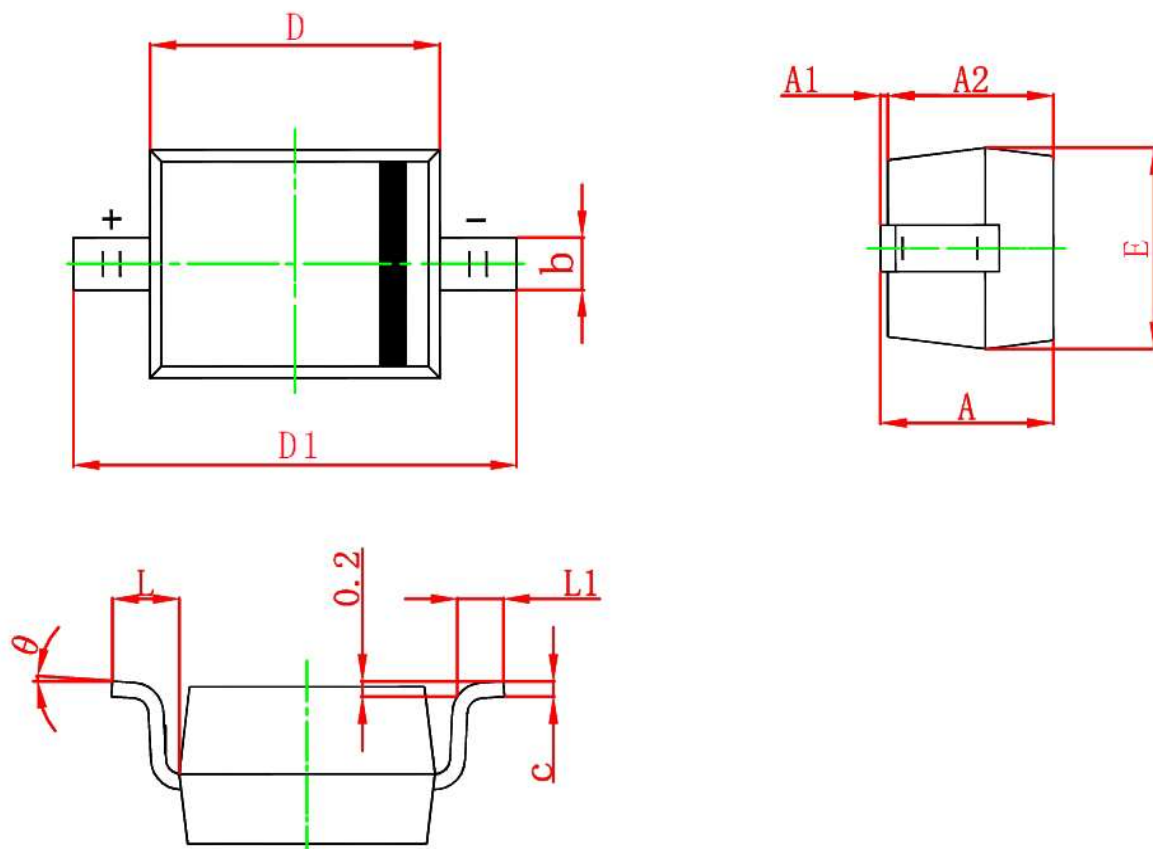
Electrical Ratings @Ta=25°C

Symbol	Parameter	Condition	Min	Typ	Max	Unit
I_{R1}	Reverse current	$V_R=30V$	--	--	0.1	μA
I_{R2}		$V_R=80V$	--	--	0.5	μA
V_{F1}	Forward voltage	$I_F=1mA$	--	0.62	--	V
V_{F2}		$I_F=10mA$	--	0.75	--	V
V_{F3}		$I_F=100mA$	--	0.98	1.20	V
C_{tot}	Capacitance Between Terminals	$V_R=0V, f=1MHz$	--	0.5	3	pF
t_{rr}	Reverse recovery time	$I_F=10mA$	--	1.6	4	ns

Typical Characteristics



SOD-323 Package Outline Dimensions



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	-	1.100	-	0.043
A1	0.000	0.100	0.000	0.004
A2	0.800	1.000	0.031	0.039
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.600	1.800	0.063	0.071
D1	2.500	2.750	0.098	0.108
E	1.200	1.400	0.047	0.055
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°	8°	0°	8°