

SCHOTTKY BARRIER DIODE

Features

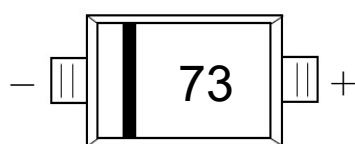
- Small Current Rectification
- Low Voltage



SOD-123 top view



Schematic diagram



Marking and pin assignment



Pb-Free



RoHS



Halogen-Free

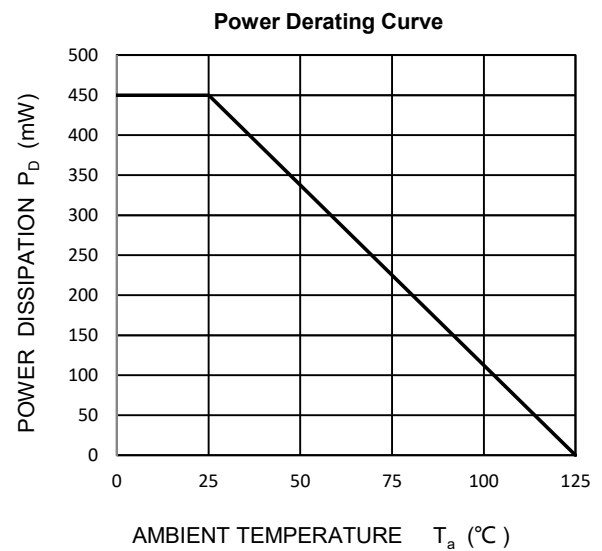
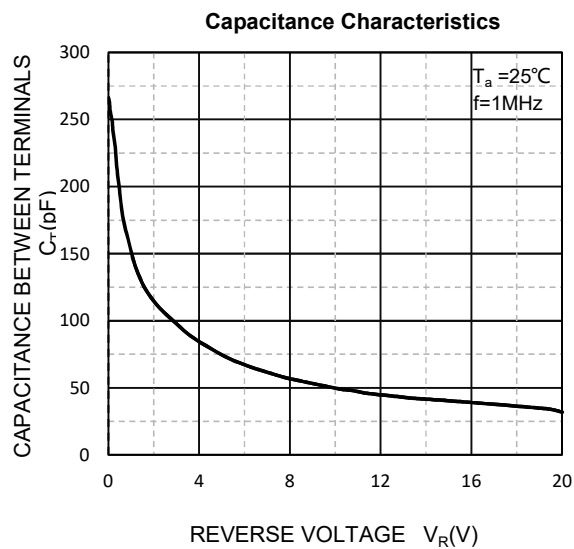
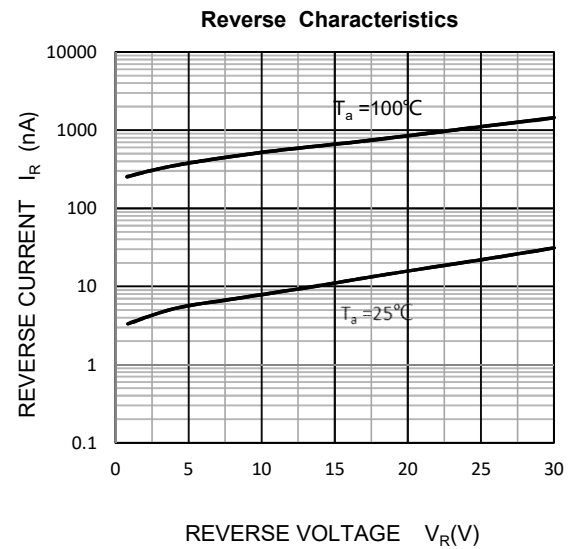
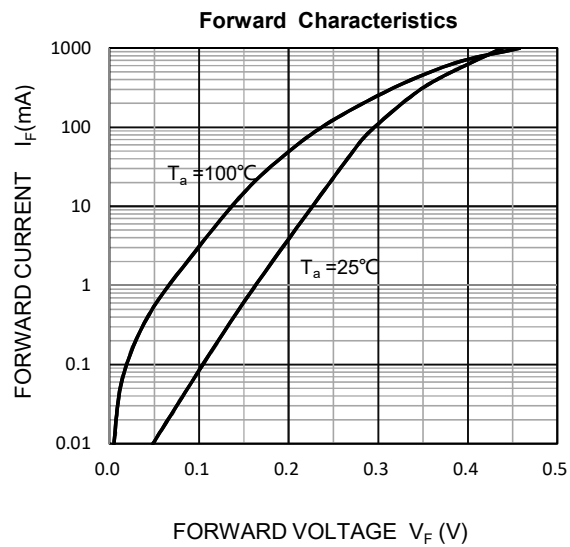
MAXIMUM RATINGS ($T_a=25$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_R	DC Blocking Voltage	30	V
I_O	Forward Current	1	A
I_{FSM}	Non-repetitive Peak Forward Surge Current@ $t= 8.3ms$	15	A
P_D	Power Dissipation	450	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	222	°C/W
T_J	Operating Junction Temperature Range	-40 ~ +125	°C
T_{stg}	Storage Temperature Range	-55 ~ +150	°C

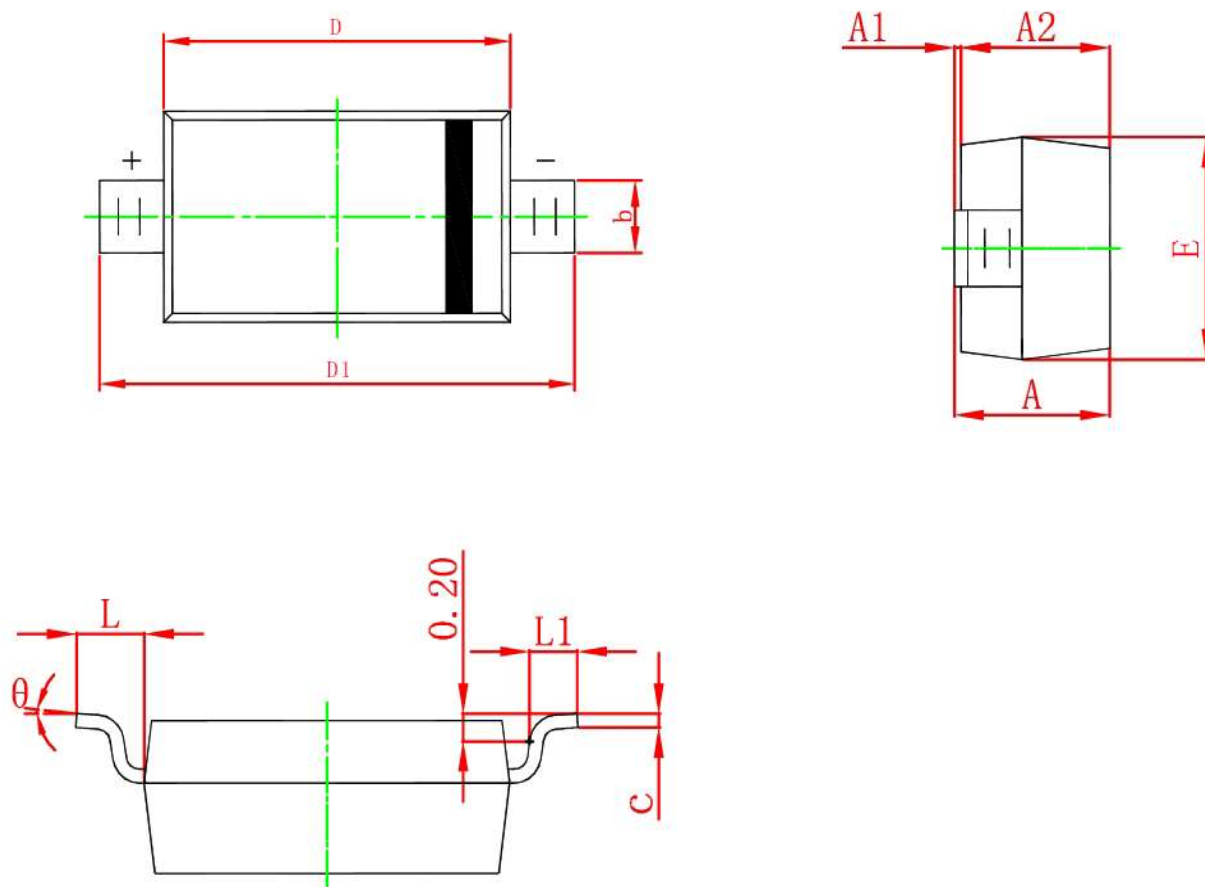
ELECTRICAL CHARACTERISTICS($T_a=25$ unless otherwise specified)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
I_R	Reverse current	$V_R=15V$	--	--	20	μA
		$V_R=30V$	--	--	50	μA
$V_{F(1)}$	Forward voltage	$I_F=500mA$	--	--	0.46	V
$V_{F(2)*}$		$I_F=1000mA$	--	--	0.48	V

Typical Characteristics



SOD-123 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	2.600	2.800	0.102	0.110
D1	3.550	3.850	0.140	0.152
E	1.500	1.700	0.059	0.067
L	0.500 REF		0.020 REF	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°