SD103AW

40V-0.35A Schottky Barrier Diode

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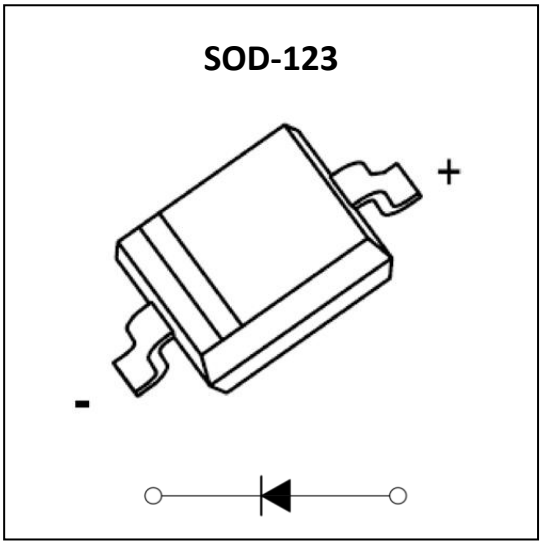


Feature

- Low Forward Voltage Drop
- Low VF
- Low IR
- High Reliability

MARKING:

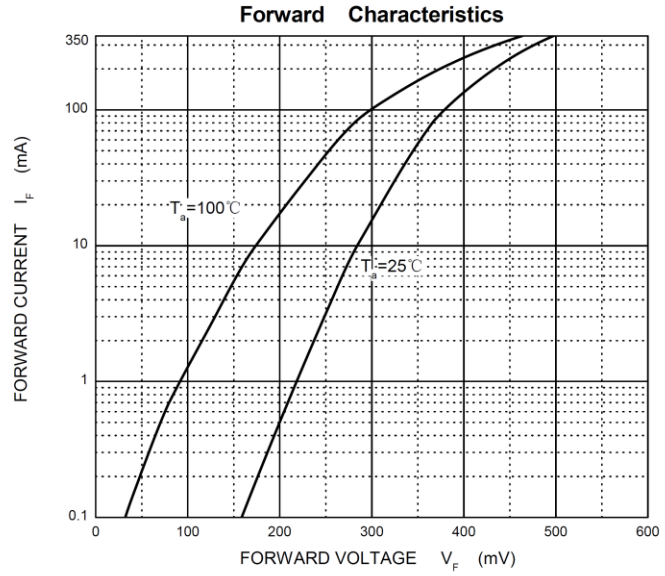
ABSOLUTE MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

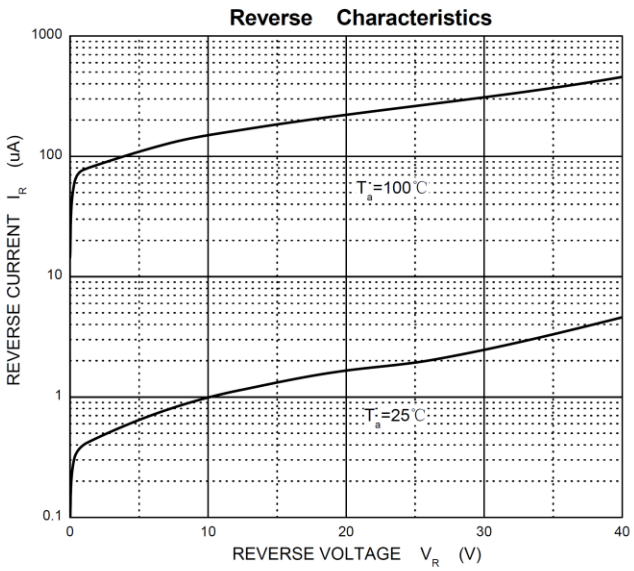
Parameter	Symbol	Value	Unit
DC reverse voltage	V_R	40	V
Forward Continuous Current	I_{FM}	0.35	A
Non-repetitive Peak Forward Surge Current @ t=8.3ms	I_{FSM}	2	A
Power Dissipation	P_D	0.2	W
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	500	℃/W
Junction Temperature	T_J	125	℃
Storage Temperature	T_{STG}	-55 ~ +150	℃

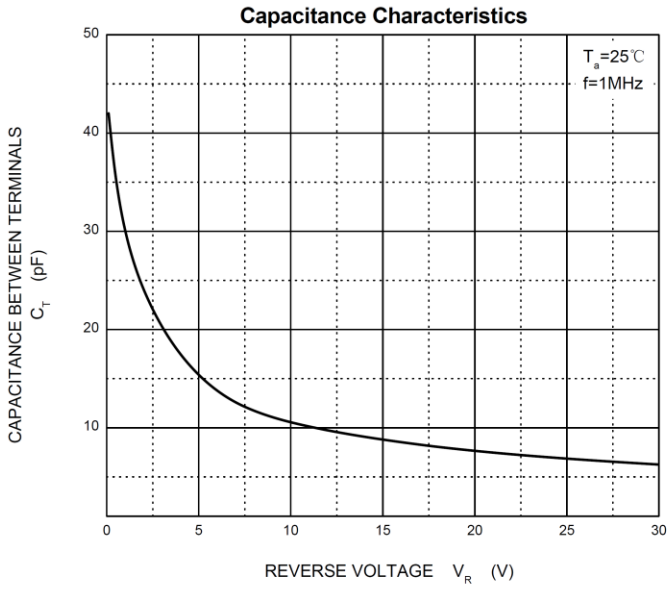
ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise noted)

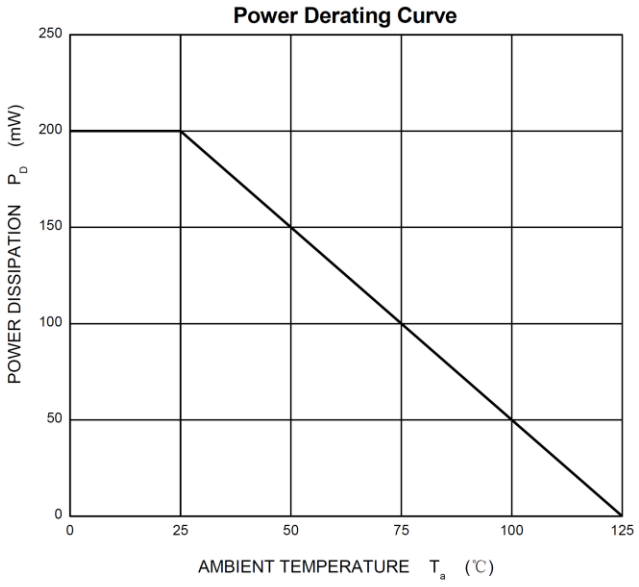
Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse voltage	V_{BR}	I_R =100μA	40			V
Forward voltage	V_F	I_F =20mA			0.37	V
		I_F =200mA			0.60	V
Reverse current	I_R	V_R =30V			5	μA
Capacitance between terminals	C_T	VR=0, f=1MHz		50		pF

Typical Characteristics

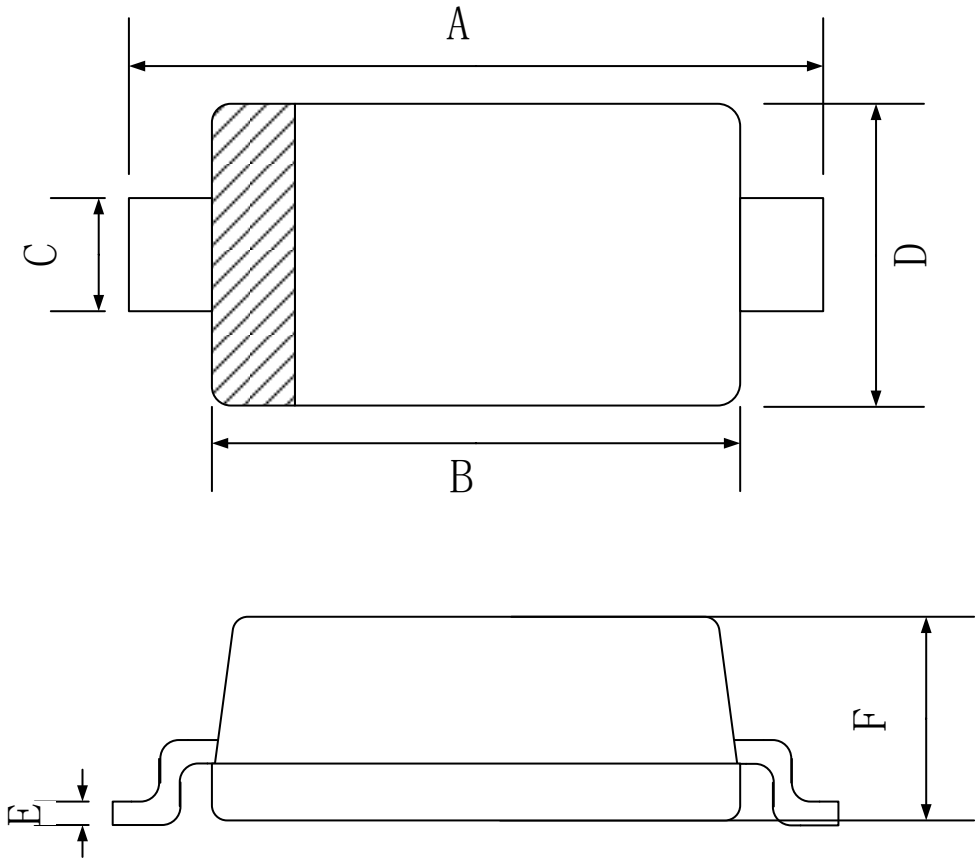








SOD-123 Package Outline Dimensions



Symbol	Dimensions In Millimeters		
	Min.	Typ.	Max.
A	3.45	3.65	3.85
B	2.55	2.65	2.75
C	0.45	0.55	0.65
D	1.50	1.60	1.70
E	0.09	0.105	0.12
F	0.95	1.15	1.35