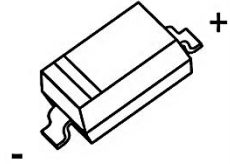




■ FEATURES

- *Low forward voltage Drop
- *Fast Switching
- *Negligible Reverse Recovery Time
- *Low Reverse Capacitance
- *Designed for Surface Mount Application
- *PN Junction Guard Ring for Transient and ESD Protection

■ MARKING

**SOD-123**

The marking bar indicates the cathode
Solid dot = Green molding compound device,
if none, the normal device.

■ ABSOLUTE MAXIMUM RATINGS (TC=25°C, unless otherwise specified)

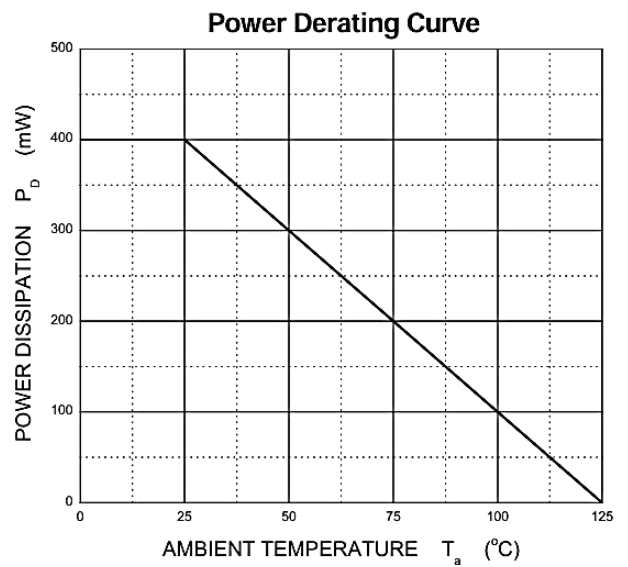
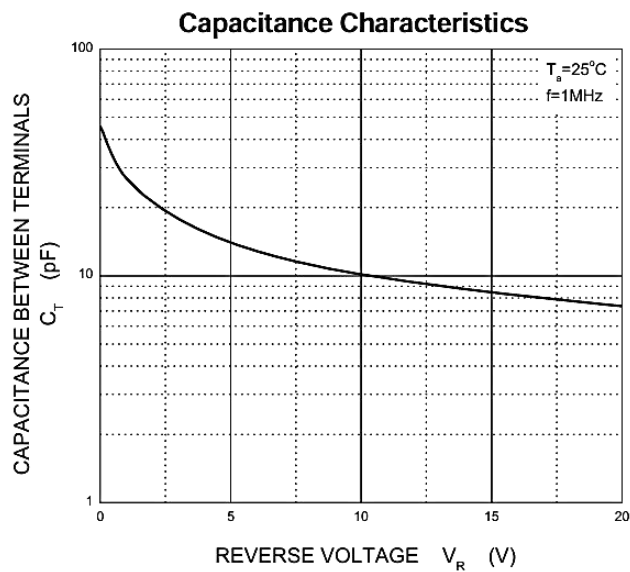
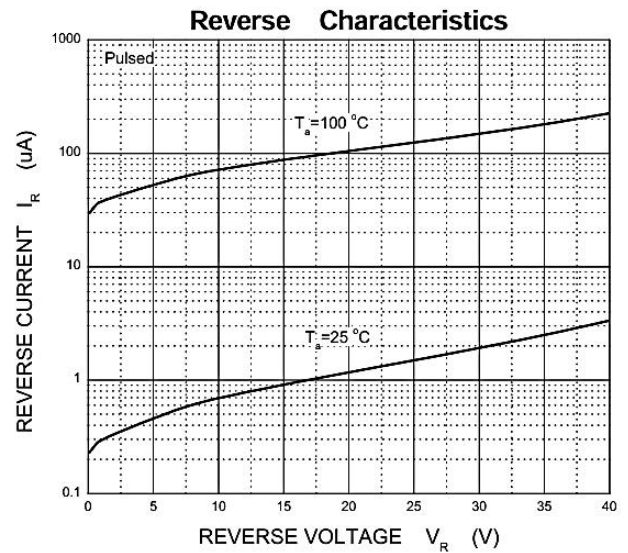
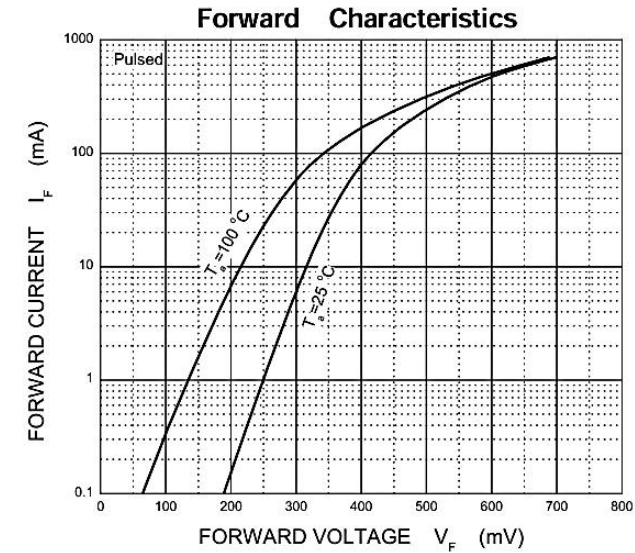
SYMBOL	PARAMETER	VALUE	UNIT
		SD103AW	
VRRM	Peak Repetitive Reverse Voltage	40	V
VRWM	Working Peak Reverse Voltage		
VR(RMS)	RMS Reverse Voltage	28	
IF	Forward Continuous Current	0.35	A
IFSM	Non-Repetitive Peak Forward Surge Current(tp=8.3ms)	2	A
PD	Power Dissipation	400	mW
RθJA	Thermal Resistance from Junction to Ambient	250	°C/W
Tj	Operating Junction Temperature Range	125	°C
Tstg	Storage Temperature Range	-60~150	°C

■ ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse voltage	V(BR)	I _R =100μA	40			V
Reverse current	I _R	V _R =30V			5	μA
Forward voltage	V _F	I _F =20mA			0.37	V
		I _F =200mA			0.6	
Total capacitance	C _{tot}	V _R =1V, f=1MHz		50		pF
Reverse recovery time	t _{rr}	I _F =I _R =200mA, I _π =0.1×I _R , R _L =100Ω		10		ns

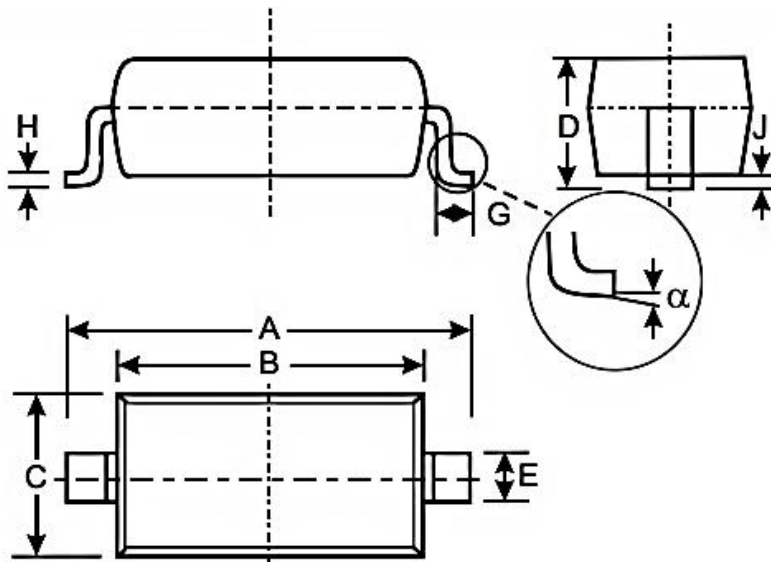


■ TYPICAL CHARACTERISTICS





■ SOD-123 PACKAGE OUTLINE DIMENSIONS



SOD-123		
Dim	Min	Max
A	3.55	3.85
B	2.60	2.80
C	1.50	1.70
D	—	1.20
E	0.55 Typical	
G	0.25	—
H	0.10 Typical	
J	—	0.10
α	0°	8°
All Dimensions in mm		