



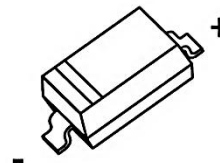
SD103AW/BW/CW

SCHOTTKY DIODE

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

SOD-123



MARKING

SD103AW	SD103BW	SD103CW

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	SD103BW	SD103CW	
VRRM	Peak Repetitive Reverse Voltage	40	30	20	V
VRWM	Working Peak Reverse Voltage				
VR(RMS)	RMS Reverse Voltage	28	21	14	
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)

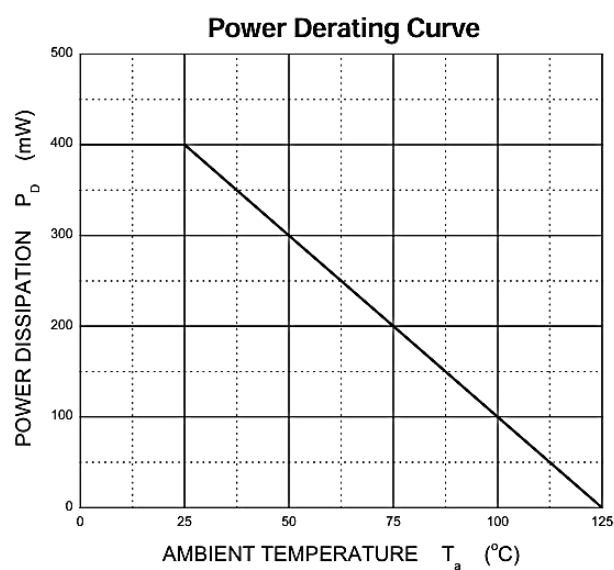
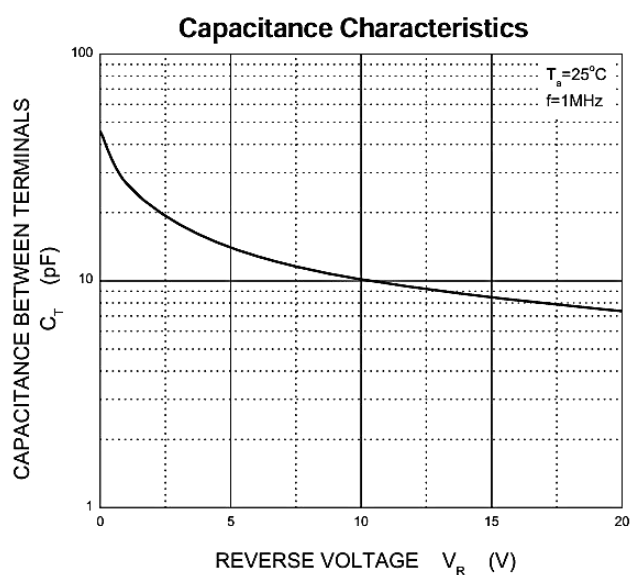
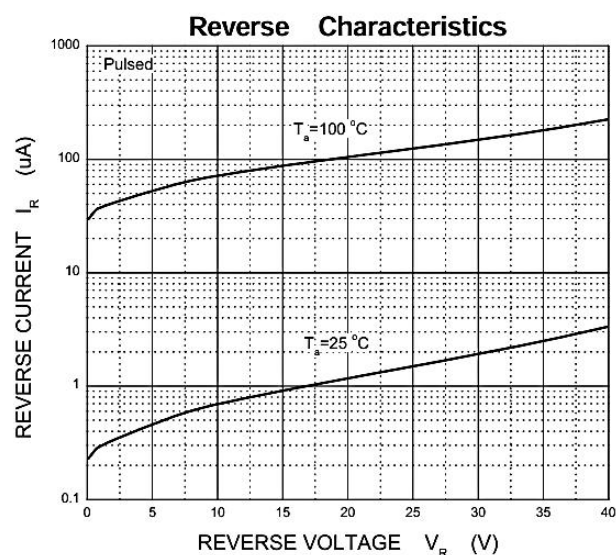
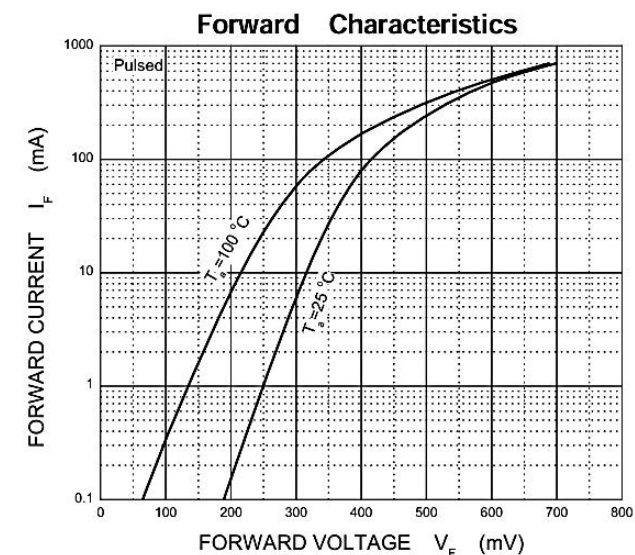
PARAMETER	SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNIT
Reverse voltage	V(BR)	IR=100μA	SD103AW	40			V
			SD103BW	30			
			SD103CW	20			
Reverse current	IR	VR=30V	SD103AW			5	μA
		VR=20V	SD103BW				
		VR=10V	SD103CW				
Forward voltage	VF	IF=20mA				0.37	V
		IF=200mA				0.6	
Total capacitance	Ctot	VR=1V, f=1MHz			50		pF
Reverse recovery time	trr	IF=IR=200mA, Iπ=0.1×IR, RL=100Ω			10		ns



SD103AW/BW/CW

SCHOTTKY DIODE

■ TYPICAL CHARACTERISTICS

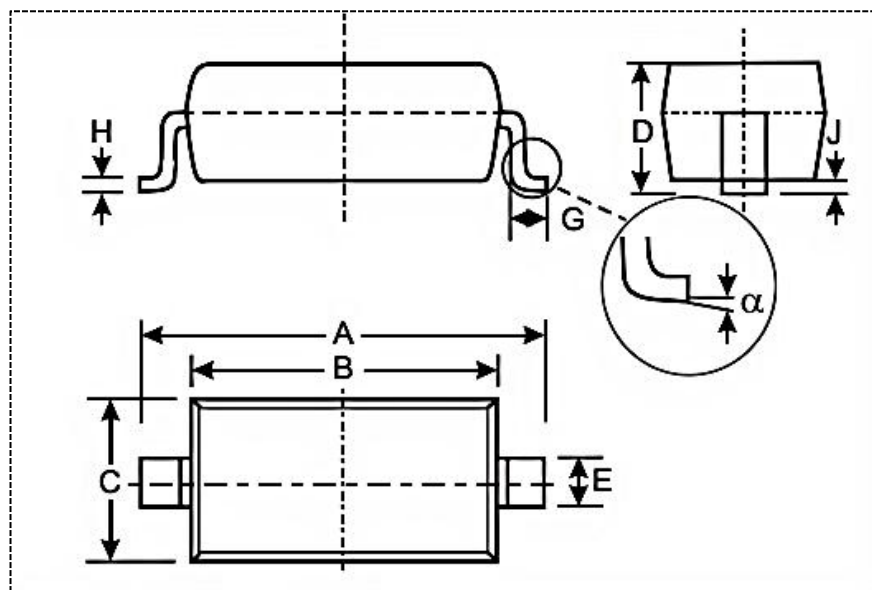




SD103AW/BW/CW

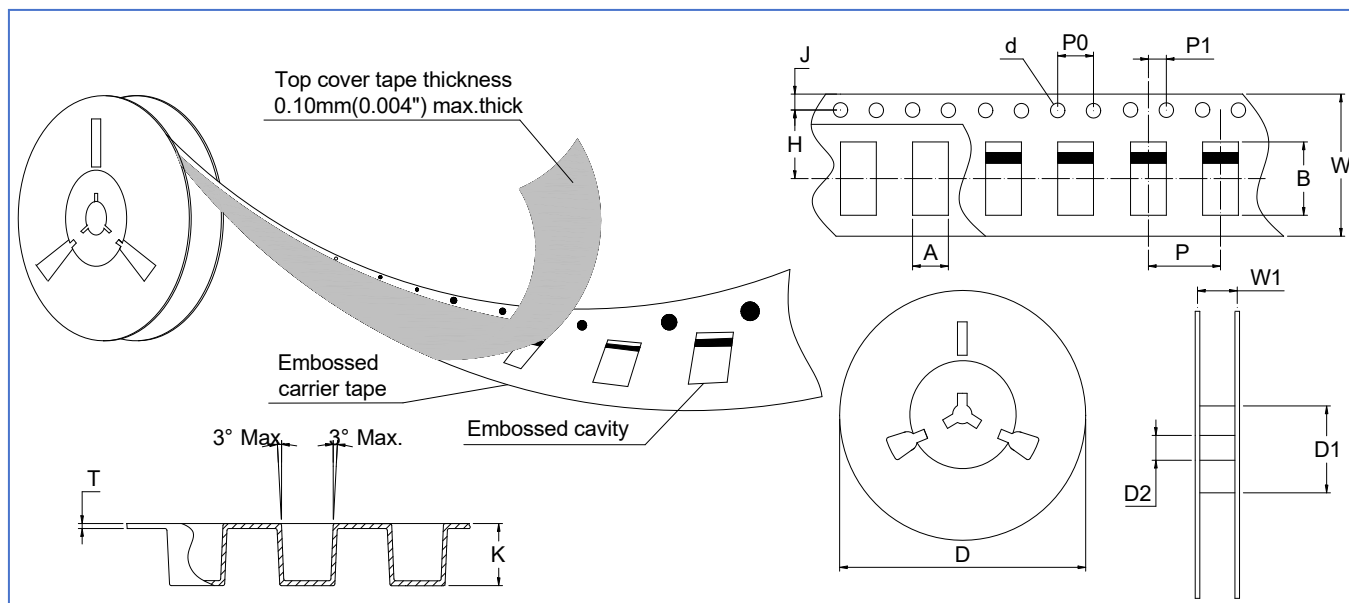
SCHOTTKY DIODE

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		

REEL PACKING



SYMBOL	A	B	d	D*	D1	D2	J	H	K	P	P0	P1	T	W	W1
	Max.	Max.	Typ.	/	Min.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Typ.	Min.
mm(inch)															
SOD123	2.1 (0.083)	4 (0.157)	Φ1.55 (0.061)	330/178 (13/7)	50 (1.969)	13 (0.512)	1.75 (0.069)	3.50 (0.138)	1.60 (0.063)	4.00 (0.157)	4.00 (0.157)	2.00 (0.079)	0.25 (0.010)	8.15 (0.321)	10.5 (0.413)
*NOTE: D=13inch Q.TY PER REEL=10K ; D=7inch Q.TY PER REEL=3K															