

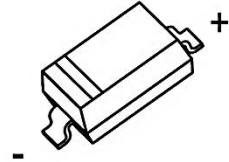
# SD103AW/BW/CW

## SCHOTTKY BARRIER DIO


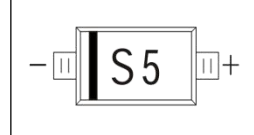
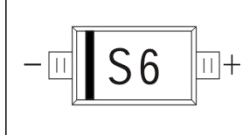
SOD-123

### FEATURES

- \*Low forward voltage Drop
- \*Guard Ring Construction for Transient Protection
- \*Negligible Reverse Recovery Time
- \*Low Reverse Capacitance



### 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	-55~150			°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			5	μA
		VR=20V				
		VR=10V				
Forward voltage	VF	IF=20mA			0.37	V
		IF=200mA			0.6	
Total capacitance	Ctot	VR=0V, f=1MHz		50		pF
Reverse recovery time	trr	IF=IR=200mA, IIR=0.1×IR, RL=100Ω		10		ns

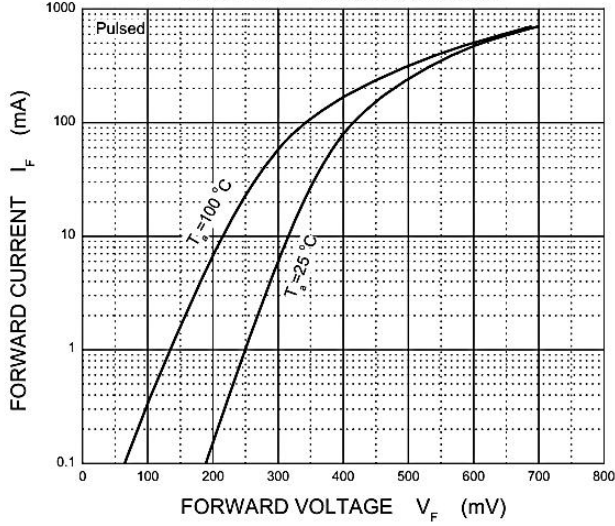


# SD103AW/BW/CW

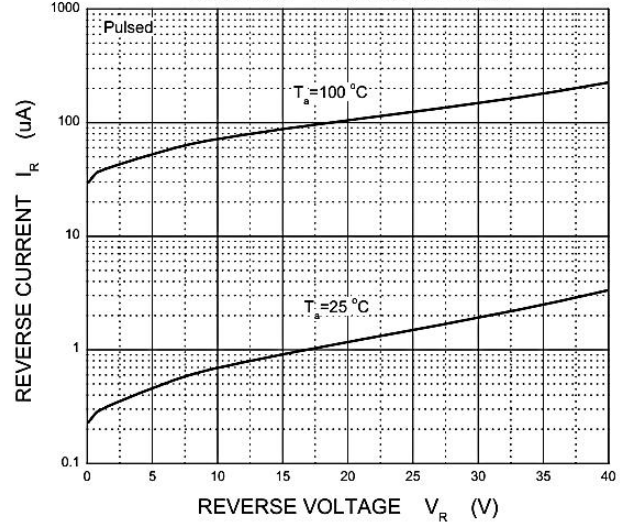
# SCHOTTKY BARRIER DIO

## TYPICAL CHARACTERISTICS

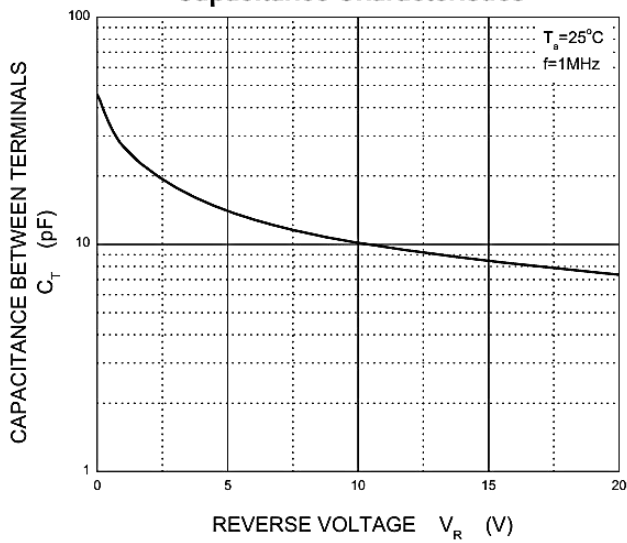
### Forward Characteristics



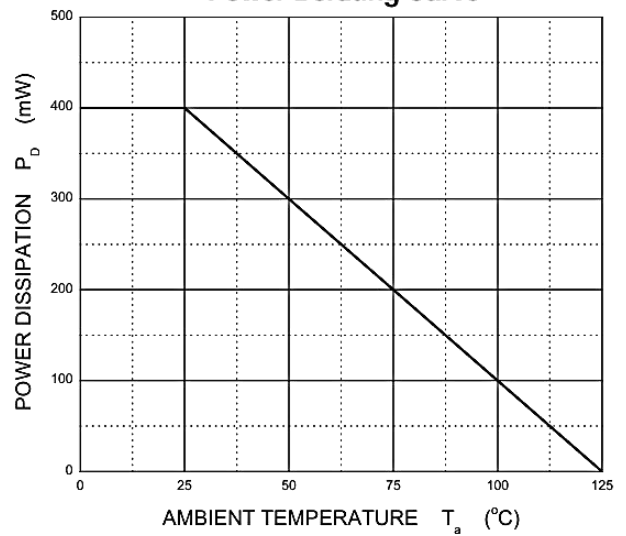
### Reverse Characteristics



### Capacitance Characteristics



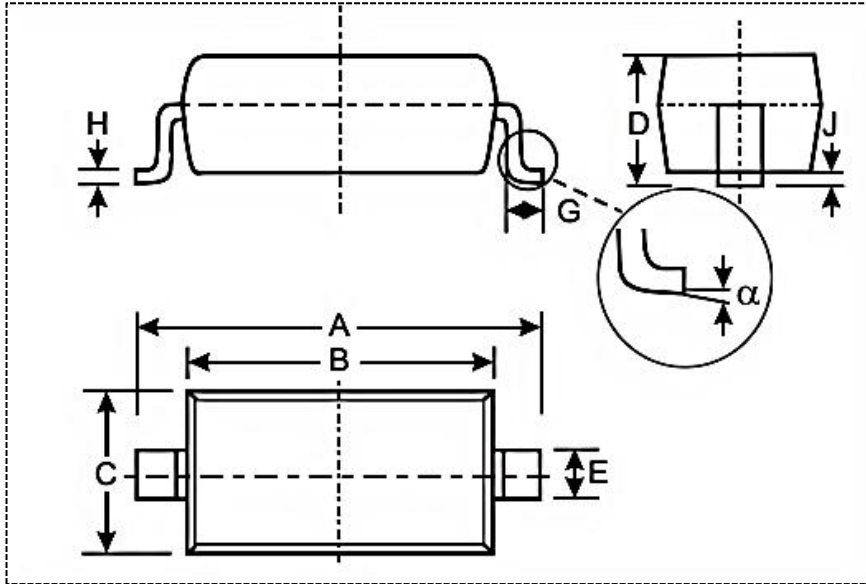
### Power Derating Curve



# SD103AW/BW/CW

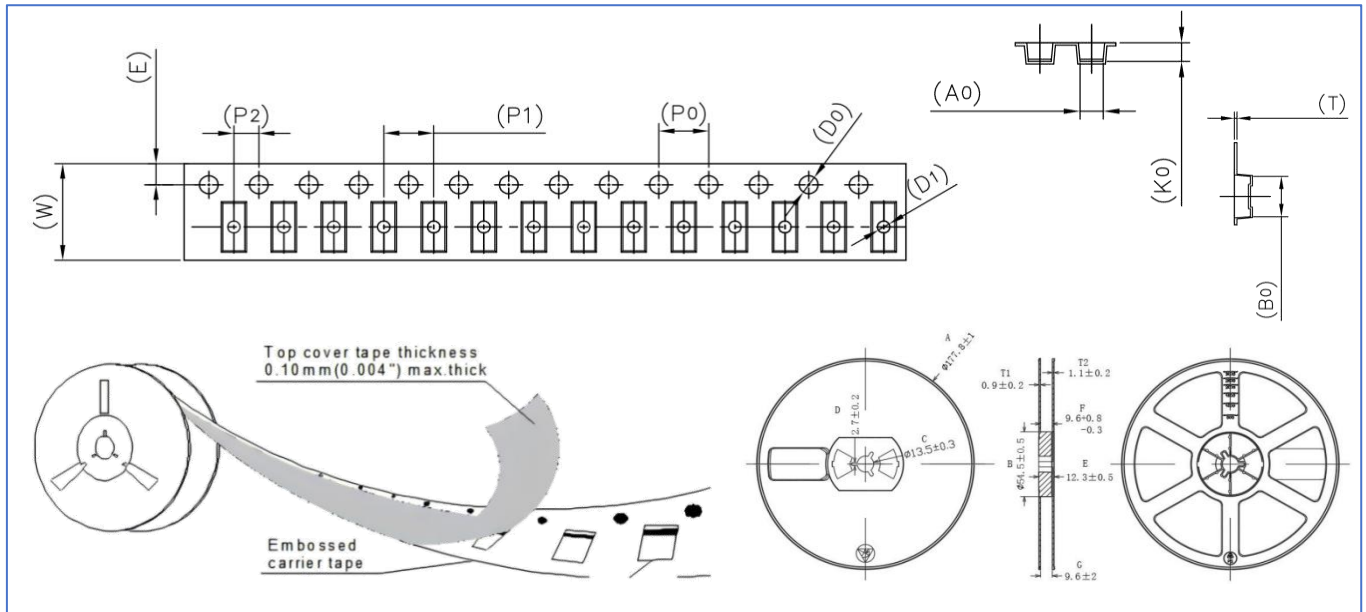
# SCHOTTKY BARRIER DIO

## ■ 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	1.06	1.25
E	0.45	0.65
G	0.25	-
H	0.09	0.15
J	0.01	0.1
$\alpha$	0°	8°
All Dimensions in mm		

## ■ REEL PACKING



Dimensions are in millimeter

PKG TYPE	W	A0	B0	K0	E	P1	P0	P2	D0	D1	T
SOD-123	8.00	1.77	3.91	1.33	1.75	4.00	4.00	2.00	1.50	1.00	0.20
Reel Option	A	B	C	D	E	F	G	T1	T2	Q.TY PER REEL	
7" Dia	Φ177.8	Φ54.5	Φ13.5	2.7	12.3	9.6	9.6	0.9	1.1	3000PCS	