

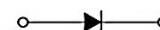
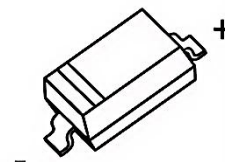
B5817W~B5819W

SCHOTTKY DIODE

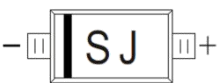
FEATURES

*For use in low voltage, high frequency inverters Free wheeling, and polarity protection applications.

SOD-123



MARKING

B5817W	B5818W	B5819W
		

The marking bar indicates the cathode
Solid dot = Green molding compound device

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

SYMBOL	PARAMETER	VALUE			UNIT
		B5817W	B5818W	B5819W	
VRM	Non-Repetitive Peak Reverse Voltage	20	30	40	V
VRRM	Peak Repetitive Peak Reverse Voltage	20	30	40	V
VRWM	Working Peak Reverse Voltage				
VR	DC Blocking Voltage				
VR(RMS)	RMS Reverse Voltage	14	21	28	V
IO	Average Rectified Output Current	1			A
IFSM	Non-Repetitive Peak Forward Surge Current(tp=8.3ms)	9			A
IFRM	Repetitive Peak Forward Current	1.5			A
PD	Power Dissipation	500			mW
RθJA	Thermal Resistance from Junction to Ambient	200			°C/W
Tj	Operating Junction Temperature Range	125			°C
Tstg	Storage Temperature Range	-55~150			°C

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

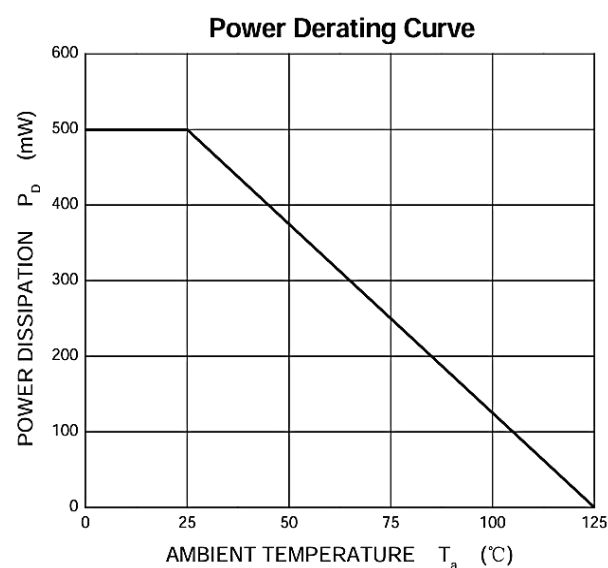
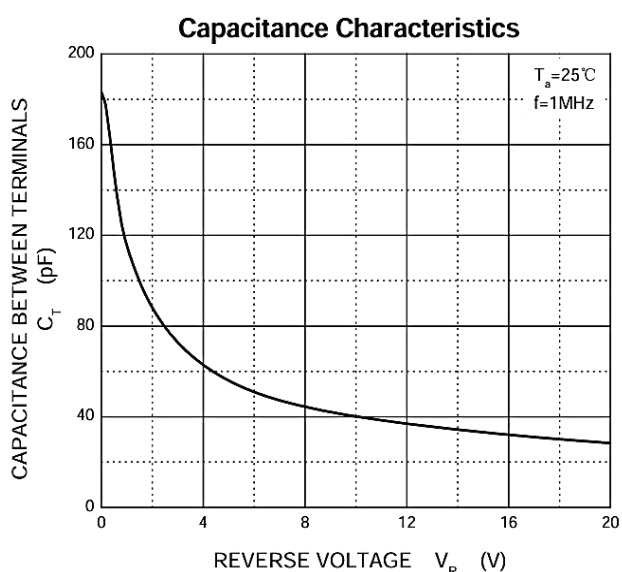
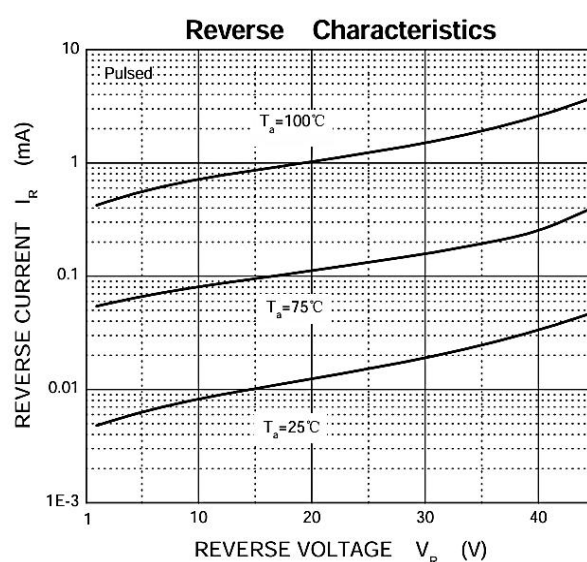
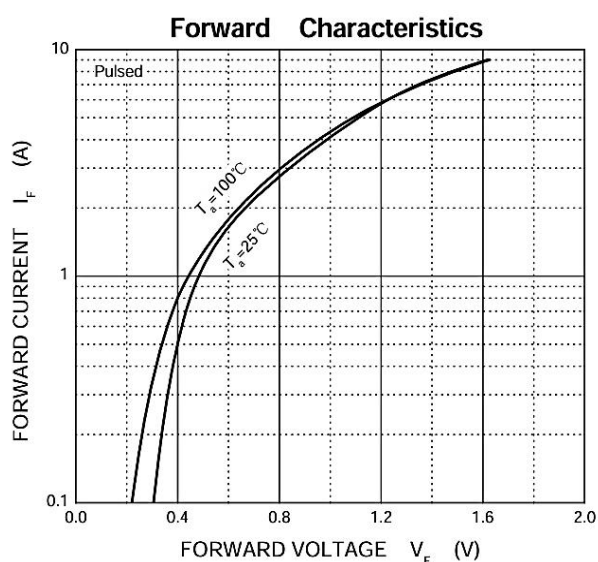
PARAMETER	SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNIT
Reverse breakdown voltage	V _(BR)	I _R =1mA	B5817W	20			V
			B5818W	30			
			B5819W	40			
Reverse voltage leakage current	I _R	V _R =20V	B5817W			1	mA
		V _R =30V	B5818W			1	
		V _R =40V	B5819W			1	

B5817W~B5819W

SCHOTTKY DIODE

PARAMETER	SYMBOL	TEST CONDITIONS		MIN	TYP	MAX	UNIT
Forward voltage	V_F	B5817W	$I_F=1A$			0.45	V
			$I_F=3A$			0.75	
		B5818W	$I_F=1A$			0.55	V
			$I_F=3A$			0.875	
		B5819W	$I_F=1A$			0.6	V
			$I_F=3A$			0.9	
Diode capacitance	C_D	$V_R=4V, f=1MHz$				120	pF

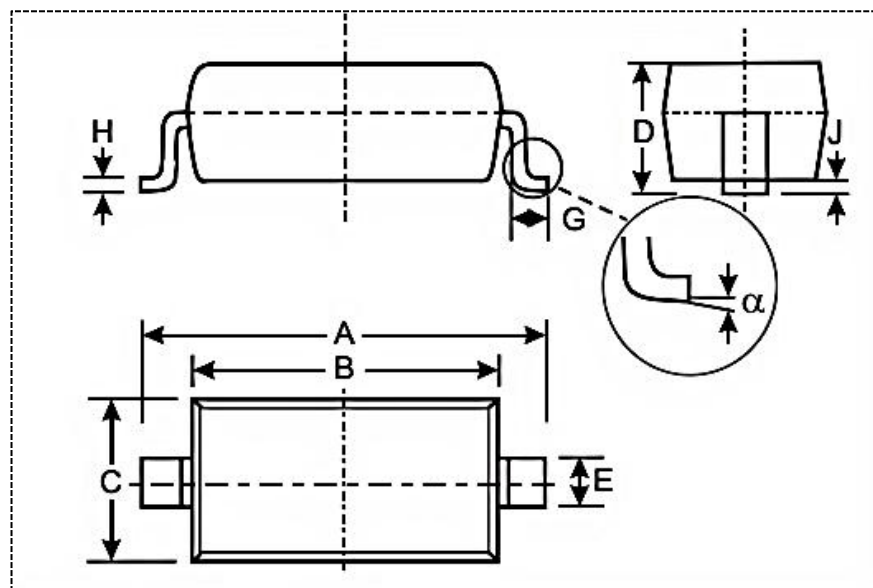
TYPICAL CHARACTERISTICS



B5817W~B5819W

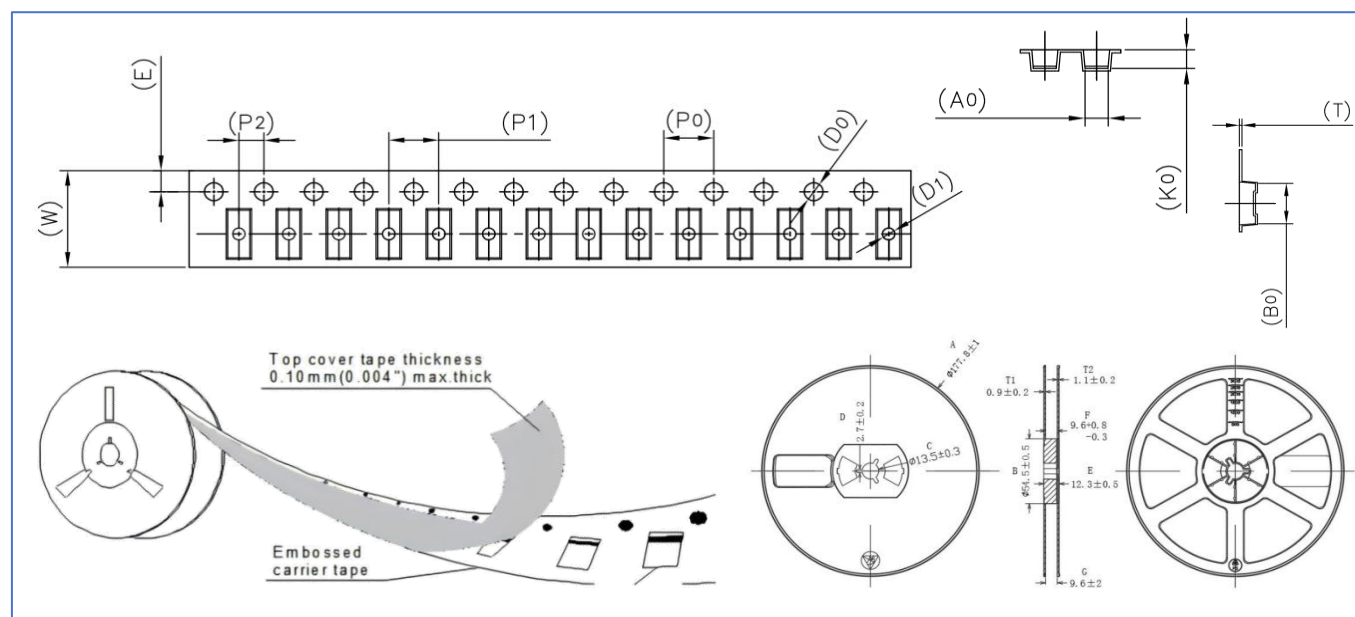
SCHOTTKY DIODE

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	1.06	1.25
E	0.45	0.65
G	0.25	-
H	0.09	0.15
J	0.01	0.1
α	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	