



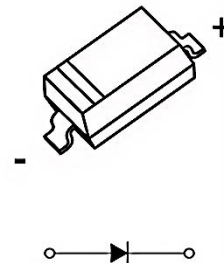
B5817W~B5819W

SCHOTTKY DIODE

SOD-123

FEATURES

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



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	

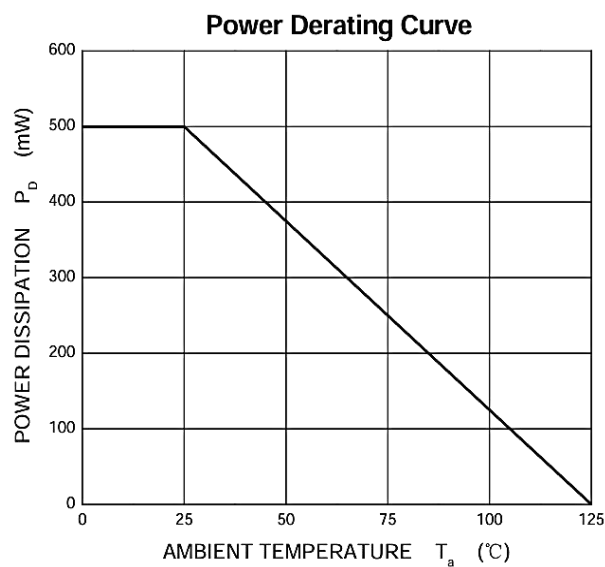
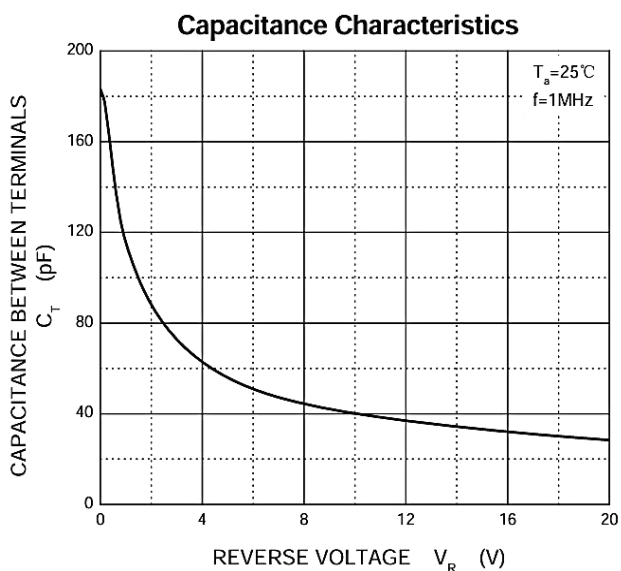
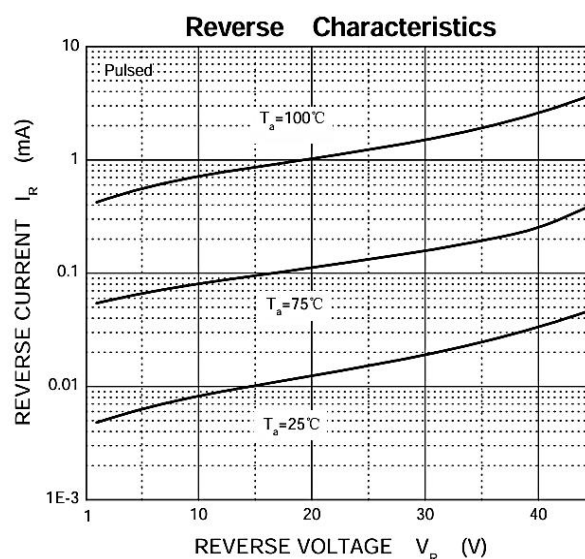
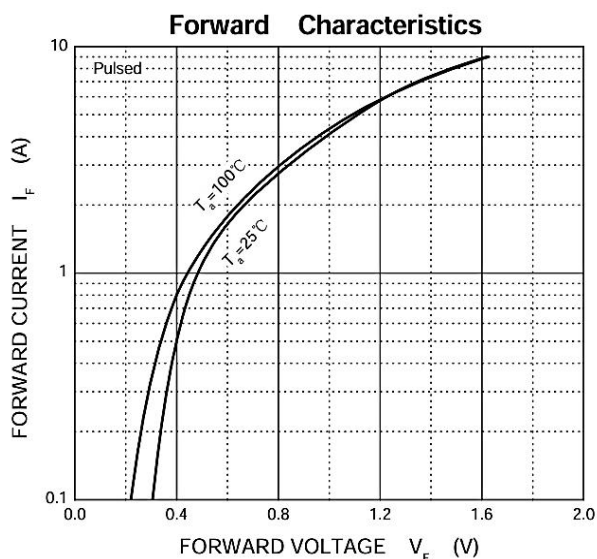


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SCHOTTKY DIODE

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

■ TYPICAL CHARACTERISTICS

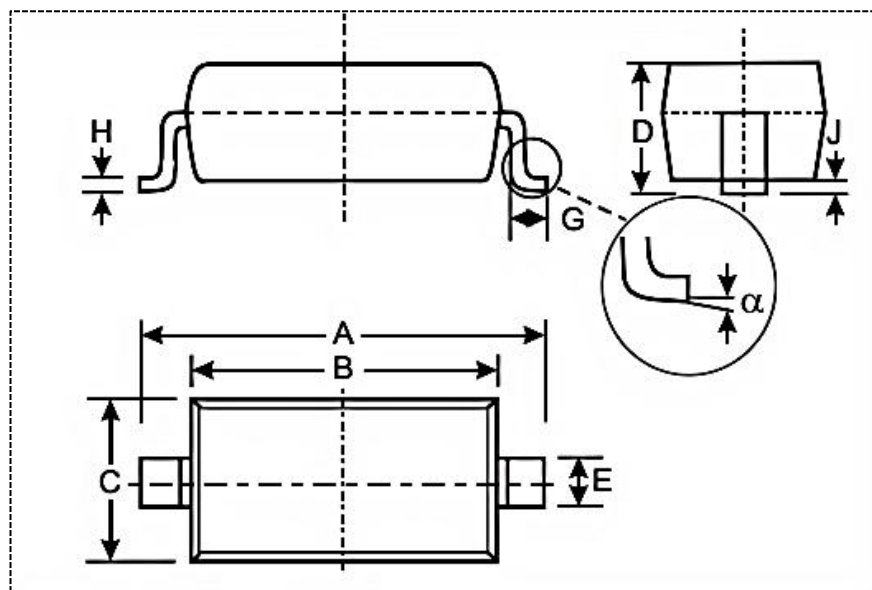




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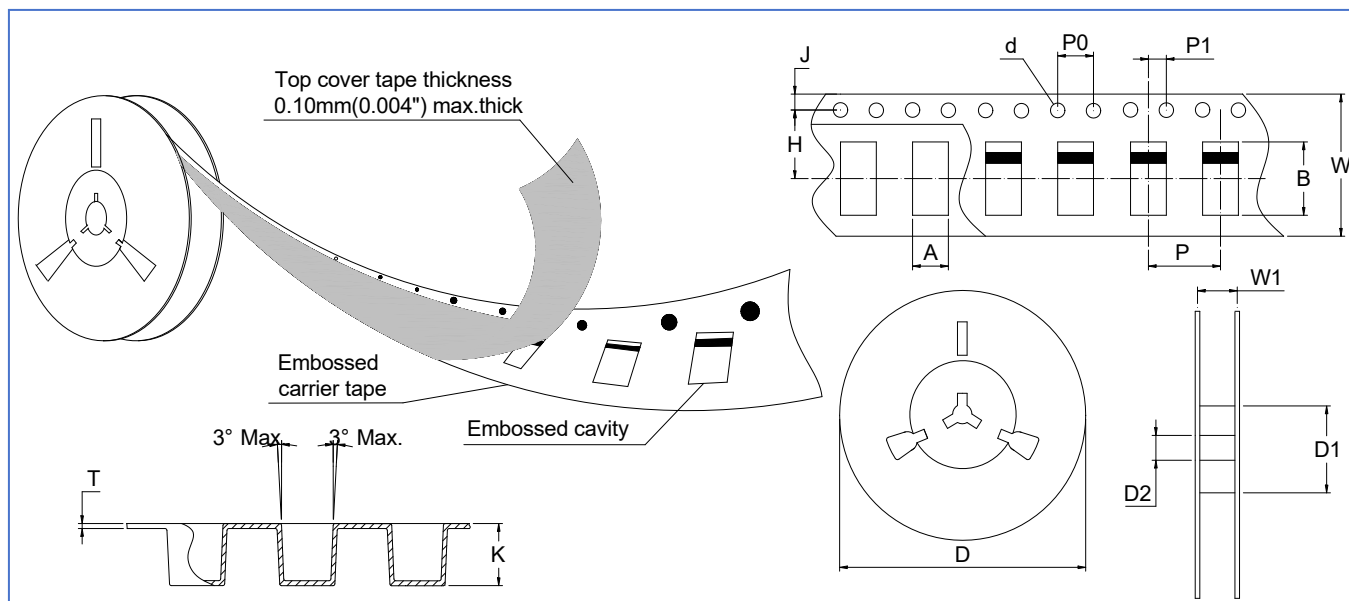
SCHOTTKY DIODE

■ 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															