



## SOD-123 封装二极管/SOD-123 Plastic-Encapsulate Diodes

### B5817W/B5818W/B5819W (SCHOTTKY DIODES)

#### 特点/Features:

正向导通电压低;

#### 用途/Applications:

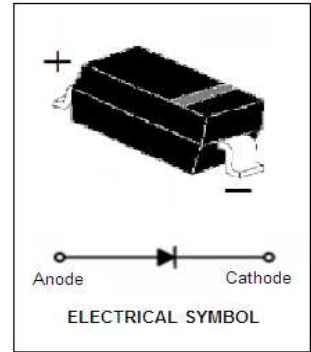
低压、高频等保护电路。

#### 印章/ Marking:

B5817W: SJ

B5818W: SK

B5819W: SL



#### 极限参数/Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	B5817W	B5818W	B5819W	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	20	30	40	
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$				
Working Peak	$V_{RWM}$	20	30	40	V
DC Blocking Voltage	$V_R$				
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Average rectified output current	$I_O$		1		A
Peak Forward Surge Current (@t≤8.3mS)	$I_{FSM}$		9		A
Repetitive Peak Forward Current	$I_{FRM}$		1.5		A
Power Dissipation	$P_d$		500		mW
Thermal Resistance Junction To Ambient	$R_{\theta JA}$		200		°C/mW
Storage Temperature	Tstg		-55~150		°C

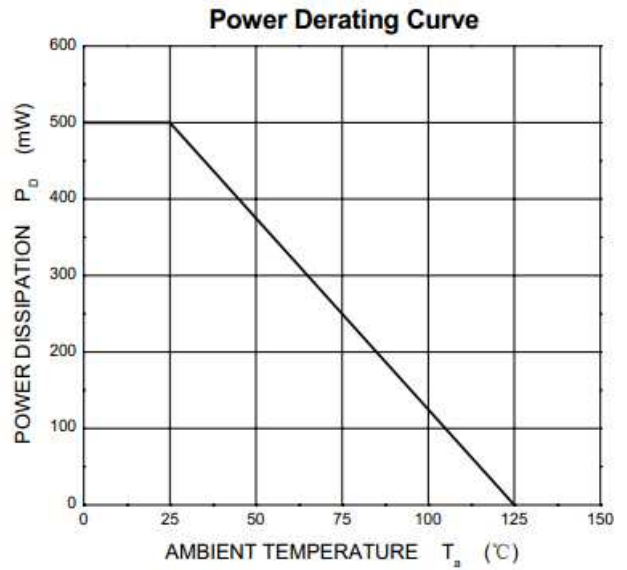
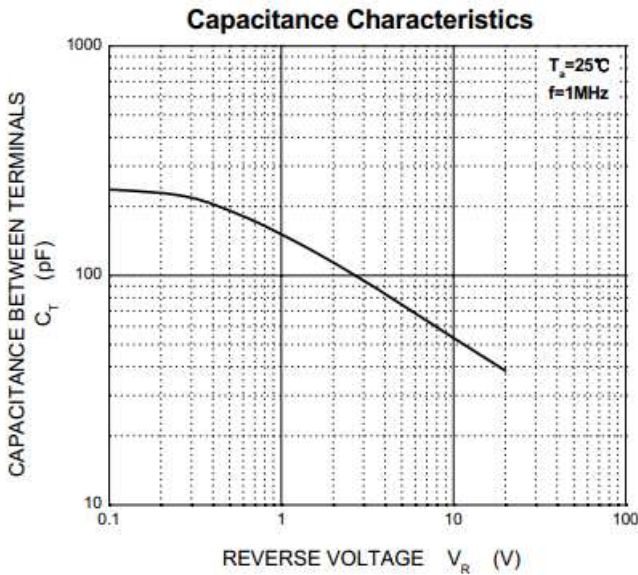
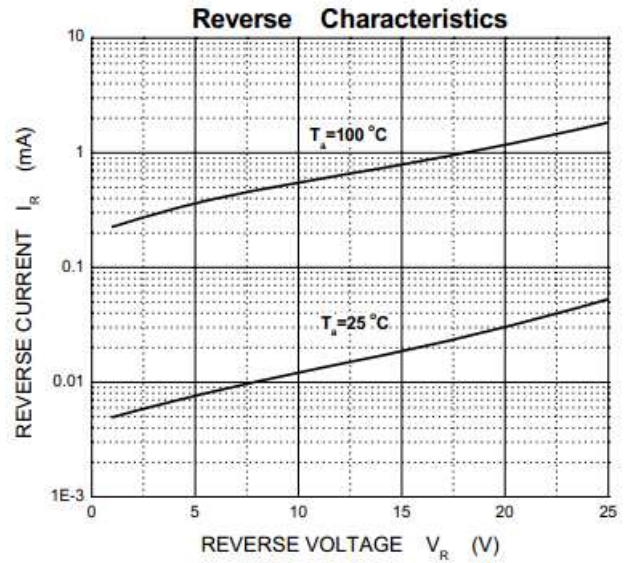
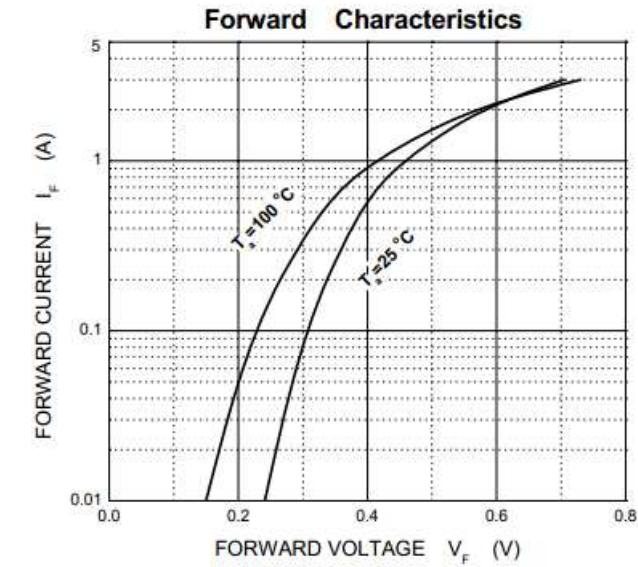
#### 电性能参数/Electrical characteristics (Ta=25°C)

参数/Parameter	符号	测试条件	最小值	典型值	最大值	单位
Reverse Breakdown Voltage B5817W B5818W B5819W	$V_{(BR)}$	$I_R=1mA$	20 30 40			V
Forward Voltage	$V_F$	$I_F=1A$ B5817W B5818W B5819W			0.45 0.55 0.6	V
		$I_F=3A$ B5817W B5818W B5819W			0.75 0.875 0.9	V
Reverse voltage leakage current B5817W B5818W B5819W	$I_R$	$V_R=20V$ $V_R=30V$ $V_R=40V$			1	mA
Diode Capacitance	$C_D$	$V_R=4V, f=1.0MHz$			120	pF



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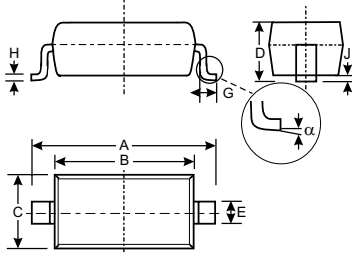
### 典型特性曲线图/Typical Characteristics





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### PACKAGE MECHANICAL DATA



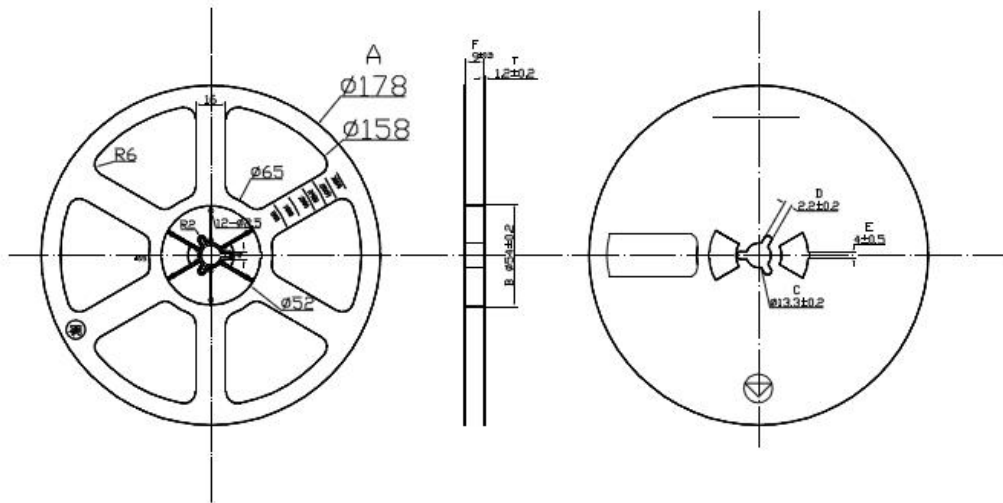
SOD-123		
Dim	Min	Max
A	3.55	3.85
B	2.55	2.85
C	1.40	1.70
D	—	1.35
E	0.55 Typical	
G	0.25	—
H	0.11 Typical	
J	—	0.10
$\alpha$	0°	8°
All Dimensions in mm		



## SOD-123 封装二极管/SOD-123 Plastic-Encapsulate Diodes

编带料盘规格

### Tape and Reel Specification



Symbol	Spec	Symbol	Spec	名称: SOD-123
<b>W</b>	<b>8.00±0.10</b>	<b>A<sub>0</sub></b>	<b>1.80±0.10</b>	
<b>E</b>	<b>1.75±0.10</b>	<b>B<sub>0</sub></b>	<b>3.90±0.10</b>	
<b>F</b>	<b>3.50±0.10</b>	<b>K<sub>0</sub></b>	<b>1.35±0.10</b>	
<b>D<sub>0</sub></b>	<b>1.55±0.05</b>	<b>B<sub>1</sub></b>	<b>2.80±0.10</b>	
<b>D<sub>1</sub></b>	<b>1.10±0.10</b>	<b>K<sub>1</sub></b>	<b>1.25±0.10</b>	
<b>P<sub>0</sub></b>	<b>4.00±0.10</b>	<b>10P<sub>0</sub></b>	<b>40.00±0.20</b>	
<b>P<sub>1</sub></b>	<b>4.00±0.10</b>			
<b>P<sub>2</sub></b>	<b>2.00±0.1</b>			
<b>t</b>	<b>0.19-0.22</b>			
<b>t<sub>1</sub></b>	<b>0.05以上</b>			

