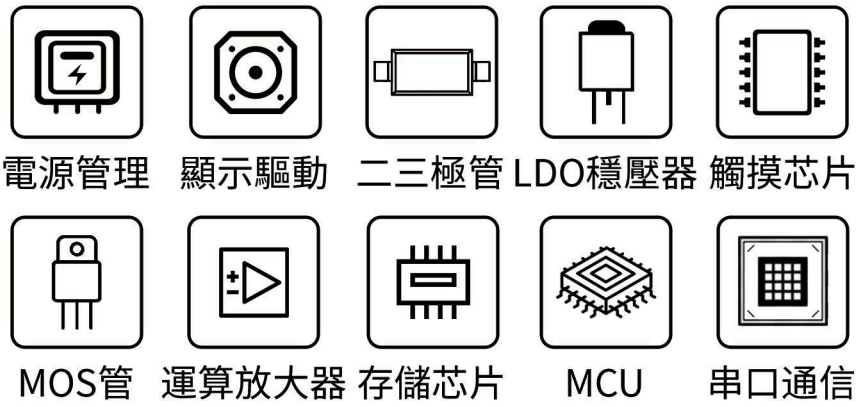
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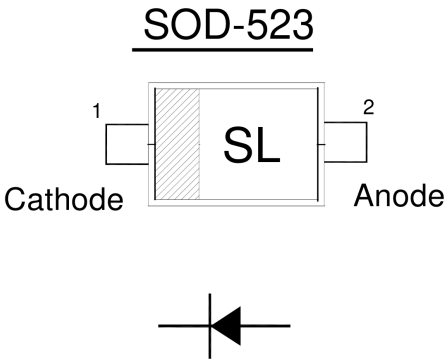
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B5819WT SL

產品規格說明書

Schottky Diode SOD-523



- Low Forward Voltage Drop
- SOD523 Micro SMD package
- RoHS compliant / Green EMC
- Matte Tin (Sn) Lead finish
- Cathode Band / Device marking
- Surface Mount Package Ideally Suited for Automatic Insertion

Marking: SL

Maximum Ratings (T_a = 25℃)

Symbol	Parameter	Value	Units
V_{RRM}	Repetitive Peak Reverse Voltage	40	V
$I_{F(AV)}$	Average Forward Rectified Current	1	A
I_{FSM}	Non-Repetitive Peak Forward Surge Current (@t=8.3ms)	6	A
T_J	Operating Junction Temperature	125	℃
T_{STG}	Storage Temperature Range	-50 to +125	℃

Electrical Characteristics (T_a = 25℃)

Symbol	Parameter	Conditions	Min	Max	Units
V_F	Forward Voltage	I_F = 0.3A	–	0.5	V
		I_F = 1A	–	0.68	
I_R	Reverse current	V_R = 40V	–	100	μA
V_{BR}	Reverse breakdown voltage	I_R = 0.5mA	40	–	V
C_T	Capacitance	V_R = 0V, f = 1MHz	–	100	pF

Typical Characteristics

Fig. 1 - Forward Current Derating Curve

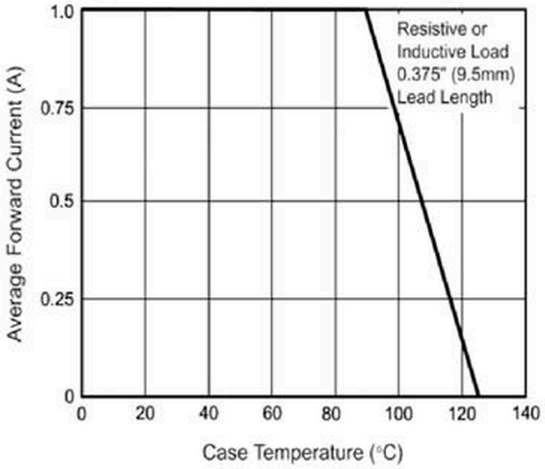


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

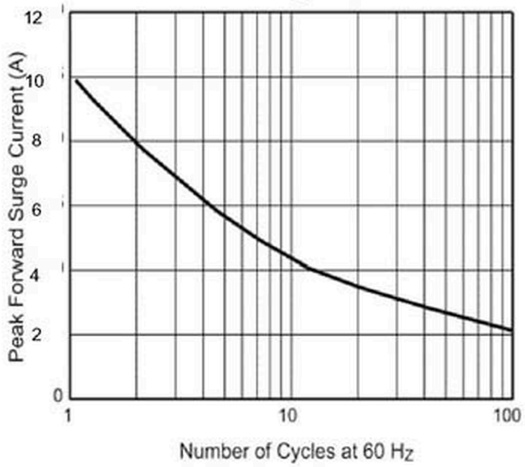


Fig. 3 - Typical Instantaneous Forward Characteristics

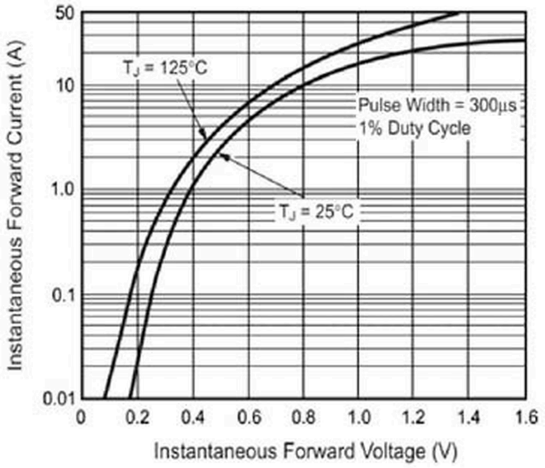


Fig. 4 - Typical Reverse Characteristics

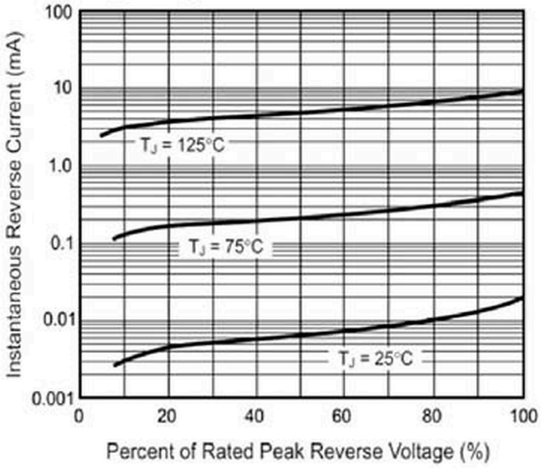


Fig. 5 - Typical Junction Capacitance

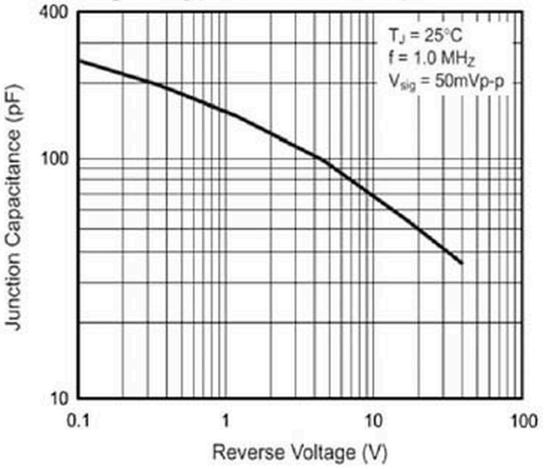
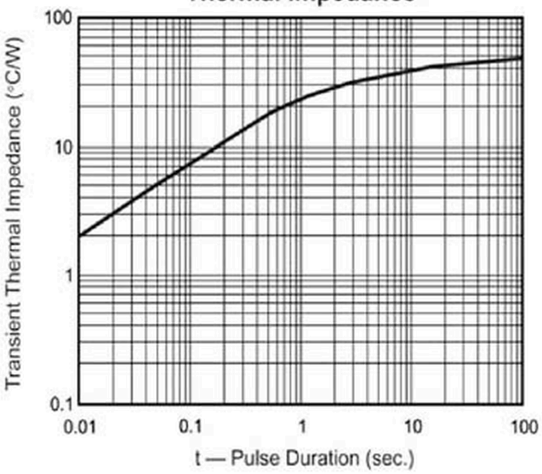
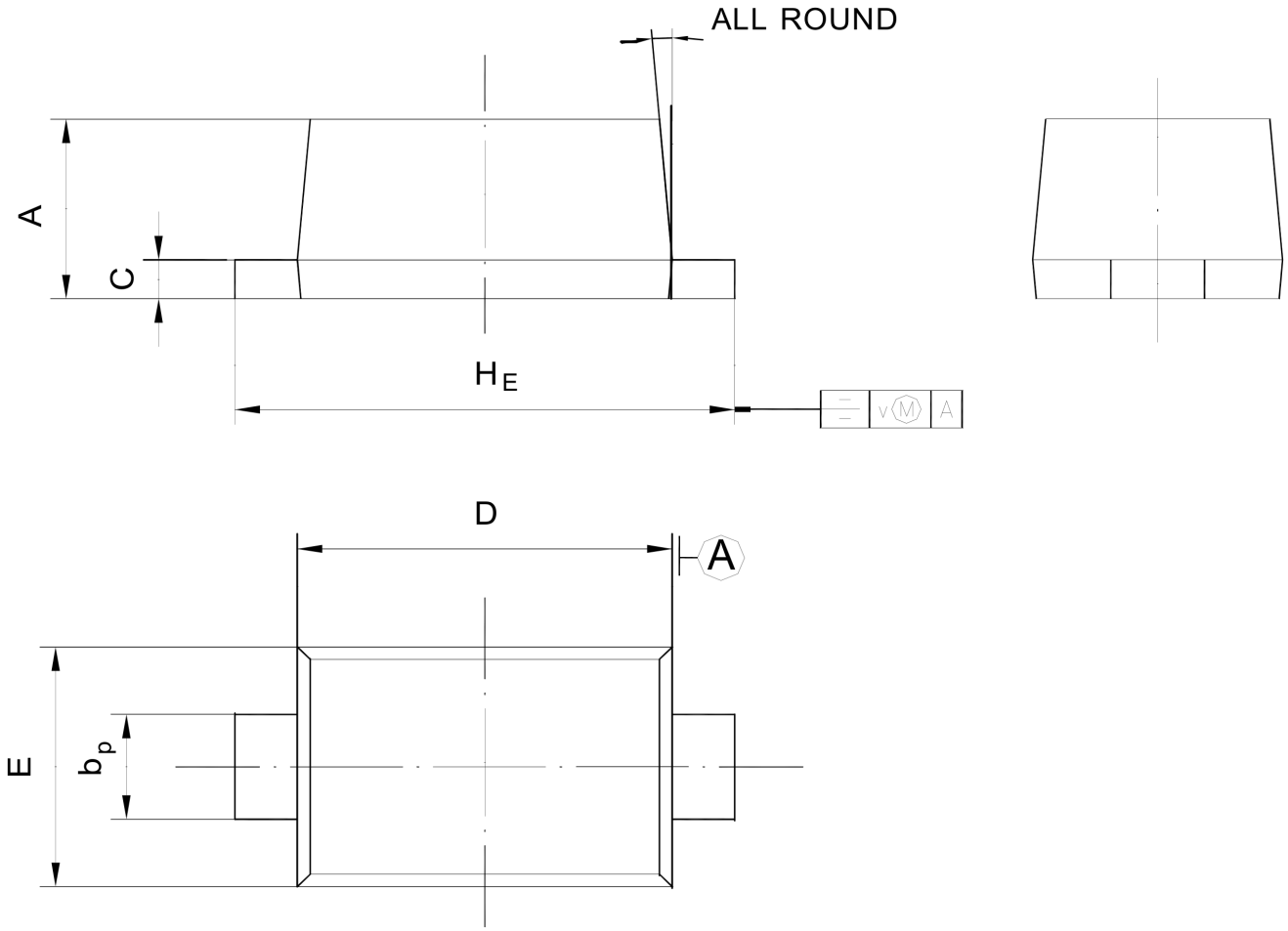


Fig. 6 - Typical Transient Thermal Impedance



Package Outline SOD-523

Plastic surface mounted package; 2 leads



UNIT	A	b_p	C	D	E	H_E	V	∠
mm	0.68	0.4	0.135	1.25	0.85	1.7	0.1	5°
	0.58	0.3	0.100	1.15	0.75	1.5		