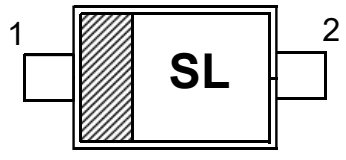
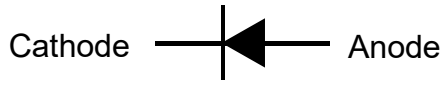
SCHOTTKY BARRIER RECTIFIERS

SOD-523

Features

- ◇ 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 (Ta = 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 (Ta = 25 ℃)

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

Typical Electrical and Thermal Characteristics (Curves)

Fig. 1 - Forward Current Derating Curve

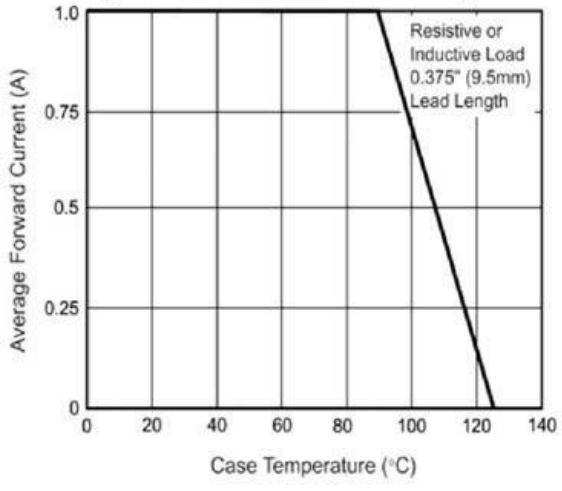


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

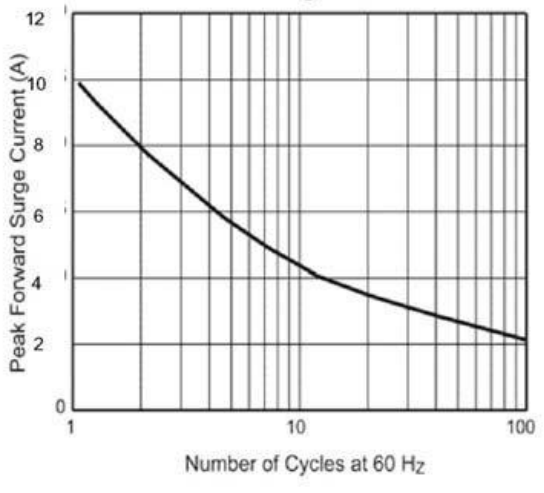


Fig. 3 - Typical Instantaneous Forward Characteristics

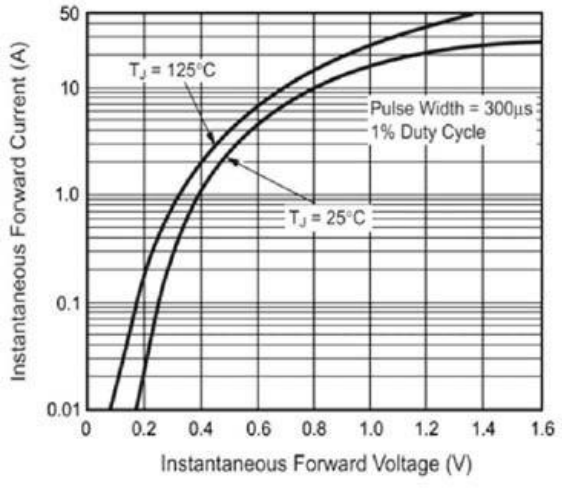


Fig. 4 - Typical Reverse Characteristics

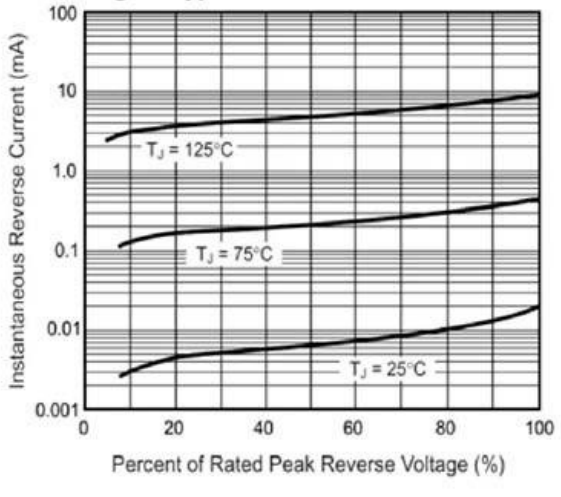


Fig. 5 - Typical Junction Capacitance

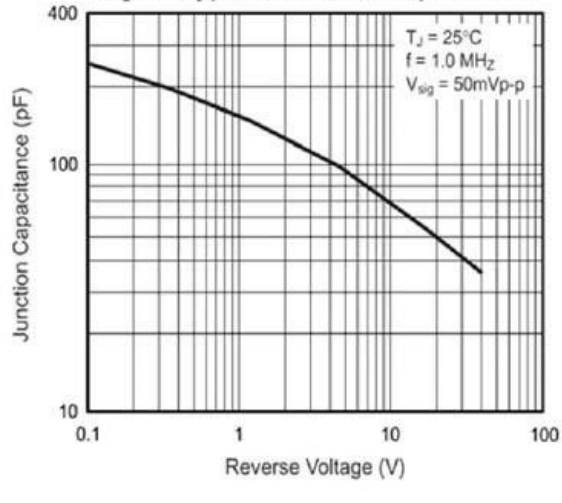
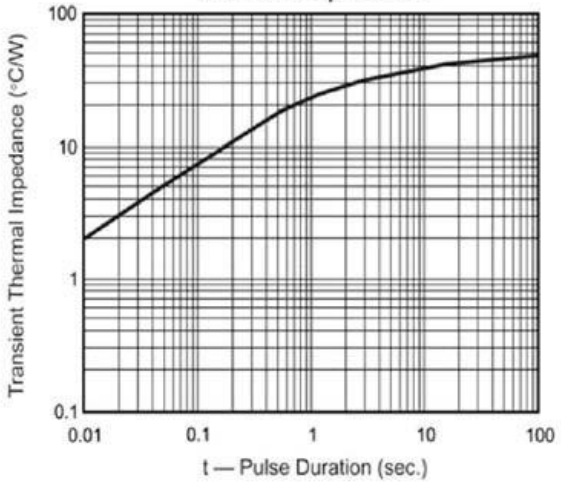
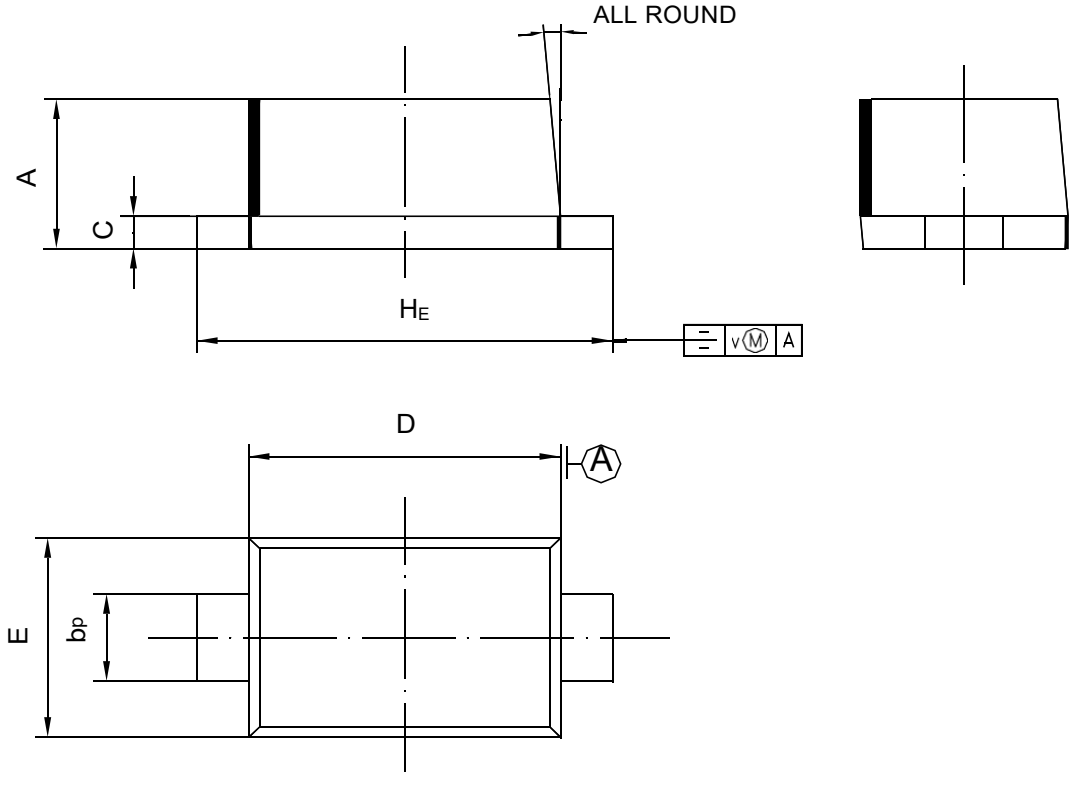


Fig. 6 - Typical Transient Thermal Impedance



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads **SOD-523**



UNIT	A	b_p	C	D	E	H_E	V	∠
mm	0.68 0.55	0.4 0.3	0.135 0.100	1.25 1.10	0.85 0.75	1.7 1.5	0.1	5°