

Schottky Diode	
<p style="text-align: center;">SOD-523</p> <p style="text-align: center;">Cathode                      Anode</p> <p style="text-align: center;">1                      2</p> <p style="text-align: center;">Marking : SL</p>	<p><b>Features</b></p> <ul style="list-style-type: none"> <li>◇ Low Forward Voltage Drop</li> <li>◇ SOD523 Micro SMD package</li> <li>◇ RoHS compliant / Green EMC</li> <li>◇ Matte Tin (Sn) Lead finish</li> <li>◇ Cathode Band / Device marking</li> <li>◇ Surface Mount Package Ideally Suited for Automatic Insertion</li> </ul>

**Maximum Ratings (Ta = 25 °C)**

Symbol	Parameter	Value	Units
V <sub>RRM</sub>	Repetitive Peak Reverse Voltage	40	V
I <sub>F(AV)</sub>	Average Forward Rectified Current	1	A
I <sub>FSM</sub>	Non-Repetitive Peak Forward Surge Current ( @t=8..3ms )	6	A
T <sub>J</sub>	Operating Junction Temperature	125	°C
T <sub>STG</sub>	Storage Temperature Range	-50 to +125	°C

**Electrical Characteristics (Ta = 25 °C)**

Symbol	Parameter	Conditions	Min	Max	Units
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 0.3A		0.5	V
		I <sub>F</sub> = 1A		0.68	V
I <sub>R</sub>	Reverse current	V <sub>R</sub> = 40V		100	uA
V <sub>BR</sub>	Reverse breakdown voltage	I <sub>R</sub> = 0.5mA	40		V
C <sub>T</sub>	Capacitance	V <sub>R</sub> = 0V, f = 1MHz		100	pF

Typical Electrical and Thermal Characteristics (Curves)

Fig. 1 - Forward Current Derating Curve

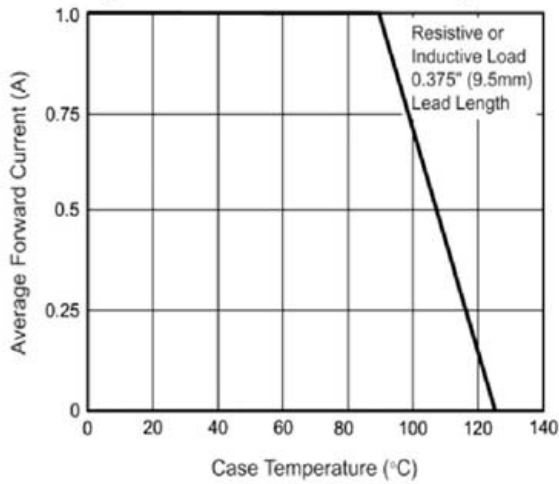


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

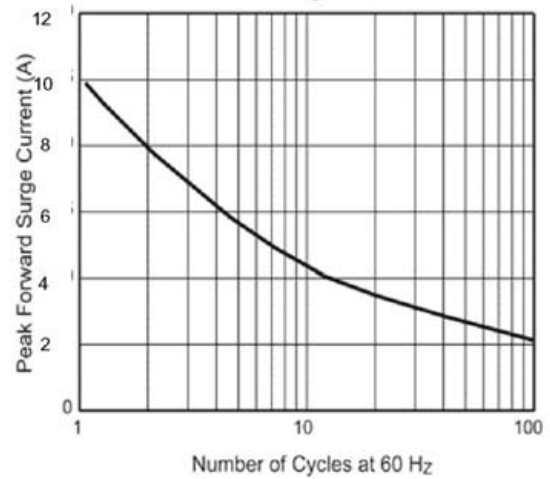


Fig. 3 - Typical Instantaneous Forward Characteristics

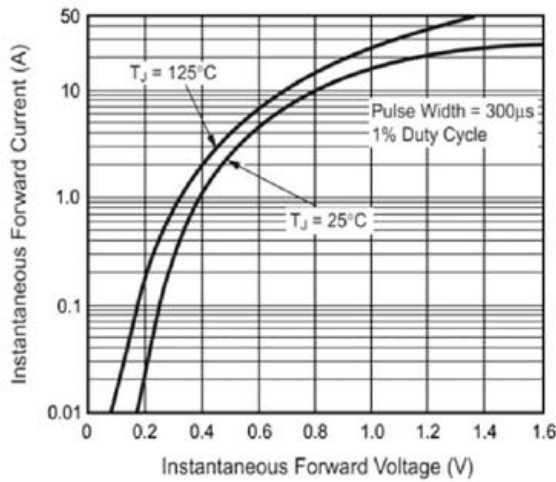


Fig. 4 - Typical Reverse Characteristics

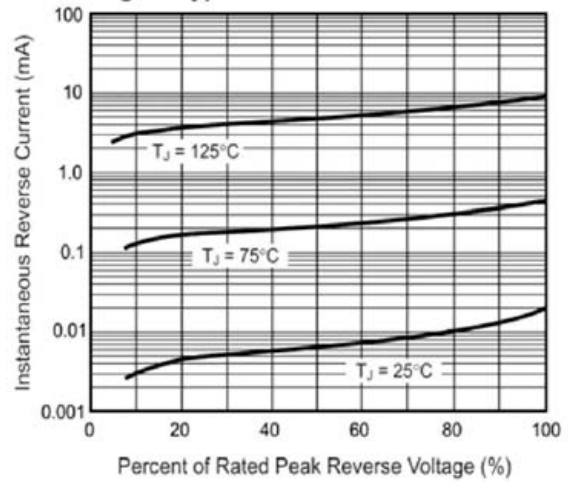


Fig. 5 - Typical Junction Capacitance

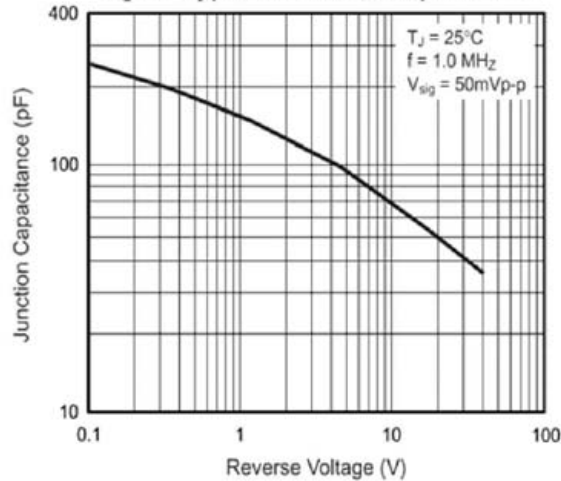
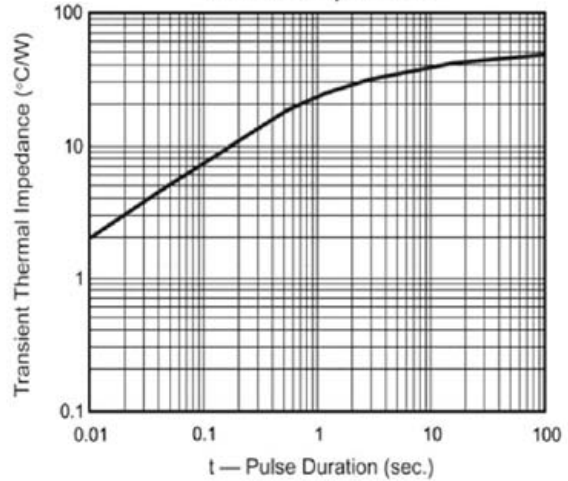


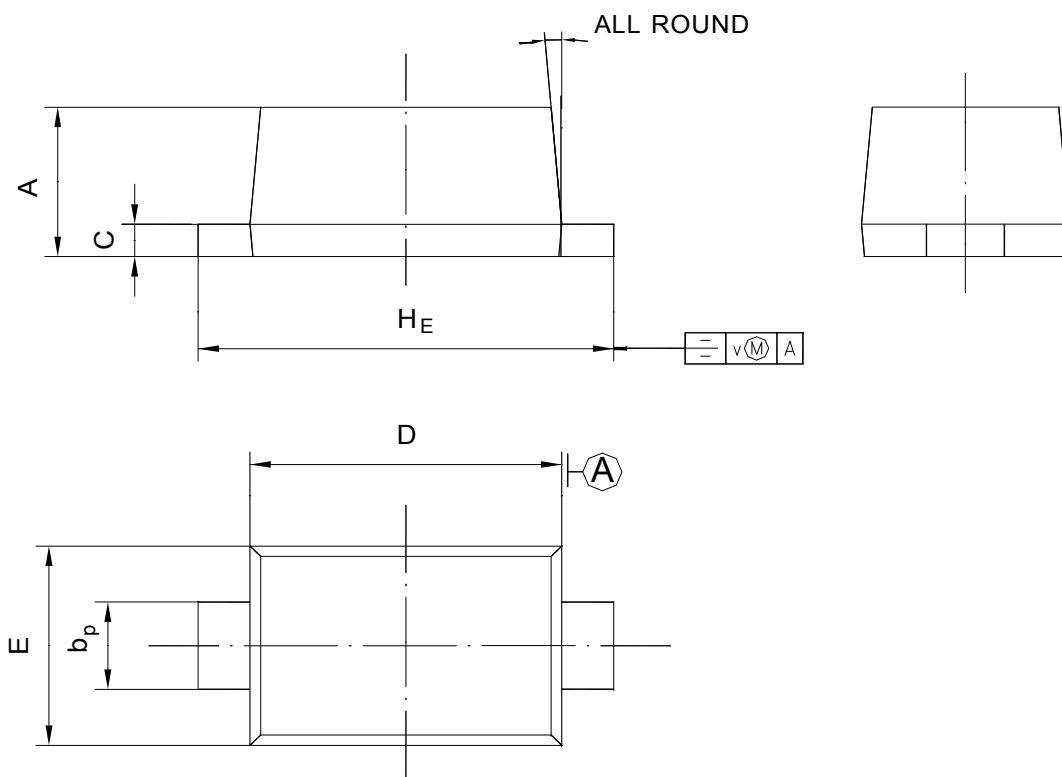
Fig. 6 - Typical Transient Thermal Impedance



**PACKAGE OUTLINE**

**Plastic surface mounted package; 2 leads**

**SOD-523**



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