

PRIMARY CHARACTERISTICS

P_D	150mW
V_{RM}	100V
I_O	150mA
$T_{J,Max}$	150°C

FEATURES

- Small Package
- Low Reverse Current
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- Moisture Sensitivity Level 1

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V_R	Reverse Voltage	75	V
V_{RRM}	Peak Repetitive Reverse Voltage		
V_{RWM}	Working Peak Reverse Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	53	V
I_O	Average Rectified Output Current	150	mA
I_{FM}	Forward Continuous Current	300	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current@t= 8.3ms	2	A
P_D	Power Dissipation	150	mW
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient	833	°C/W
T_j	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55~+150	°C

ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	$I_R=1\mu A$	75			V
Reverse current	I_R	$V_R=75V$			1	μA
		$V_R=20V$			25	nA
Forward voltage	V_F	$I_F=1mA$			0.715	V
		$I_F=10mA$			0.855	V
		$I_F=50mA$			1	V
		$I_F=150mA$			1.25	V
Total capacitance	C_{tot}	$V_R=0V, f=1MHz$			2	pF
Reverse recovery time	t_{rr}	$I_F= I_R =10mA, I_{rr}=0.1*I_R, R_L=100 \Omega$			4	ns

SOD-523

PACKAGE

MARKING:T4

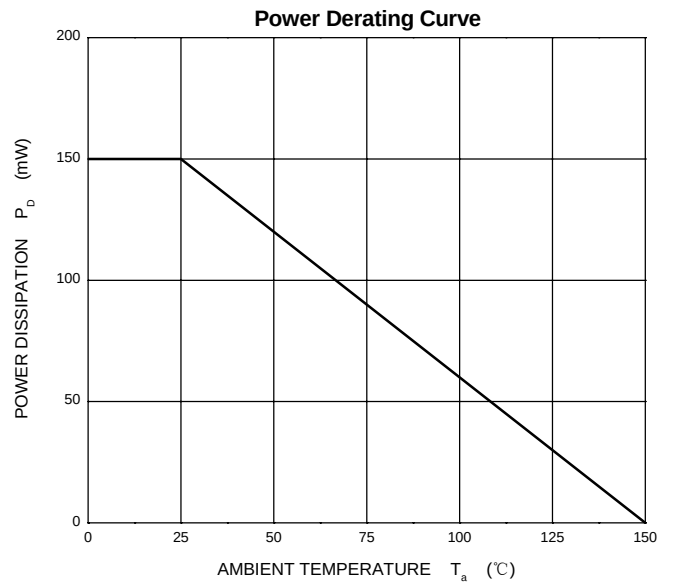
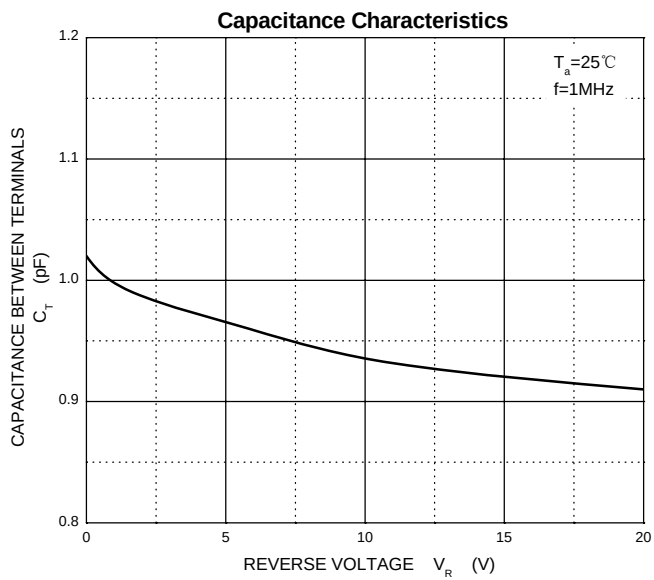
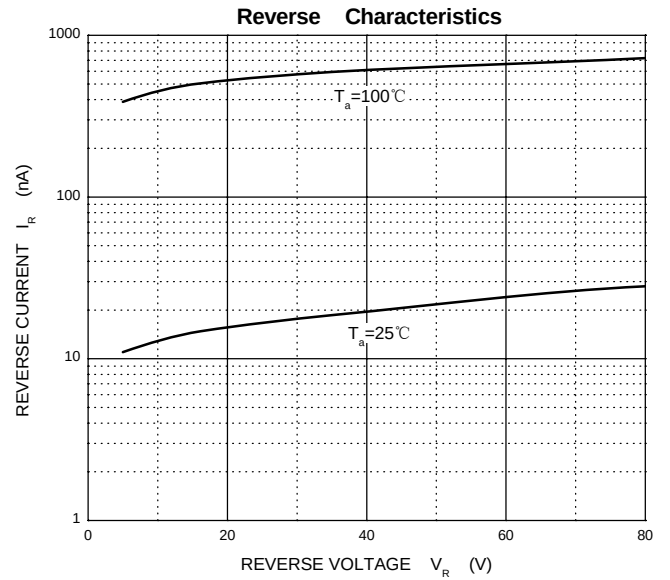
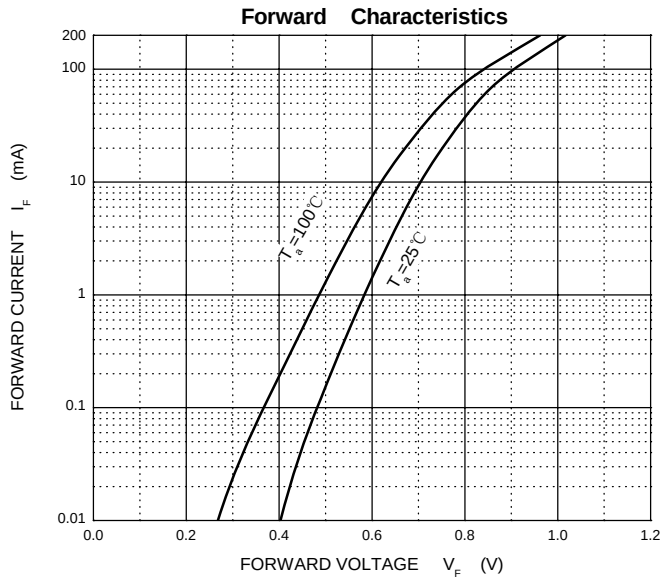


MECHANICAL DATA

- Case : Molded plastic,SOD-523
- Polarity : As Above Marked
- Terminals :Plated terminals,
solderable per MIL-STD-750,Method
2026



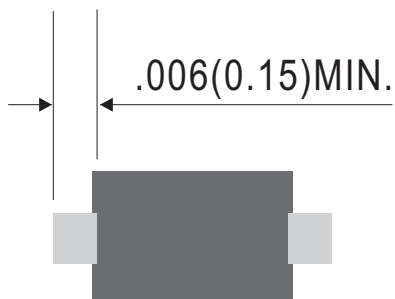
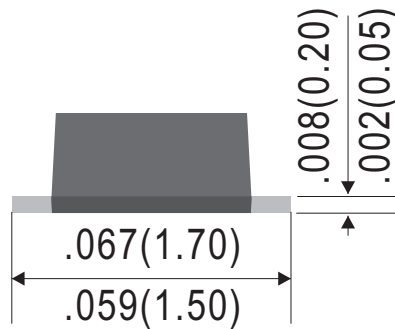
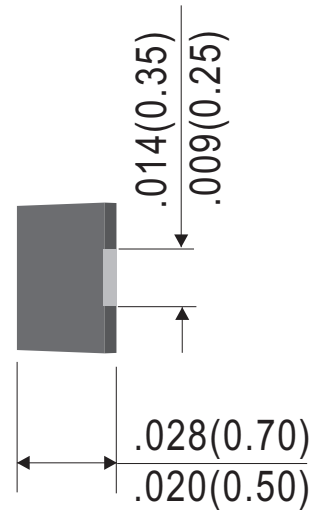
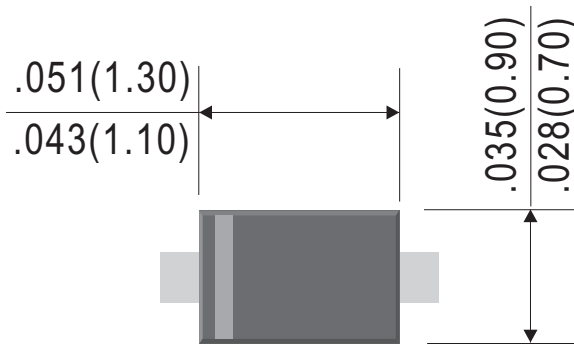
Typical Characteristics





Outline Drawing

SOD-523

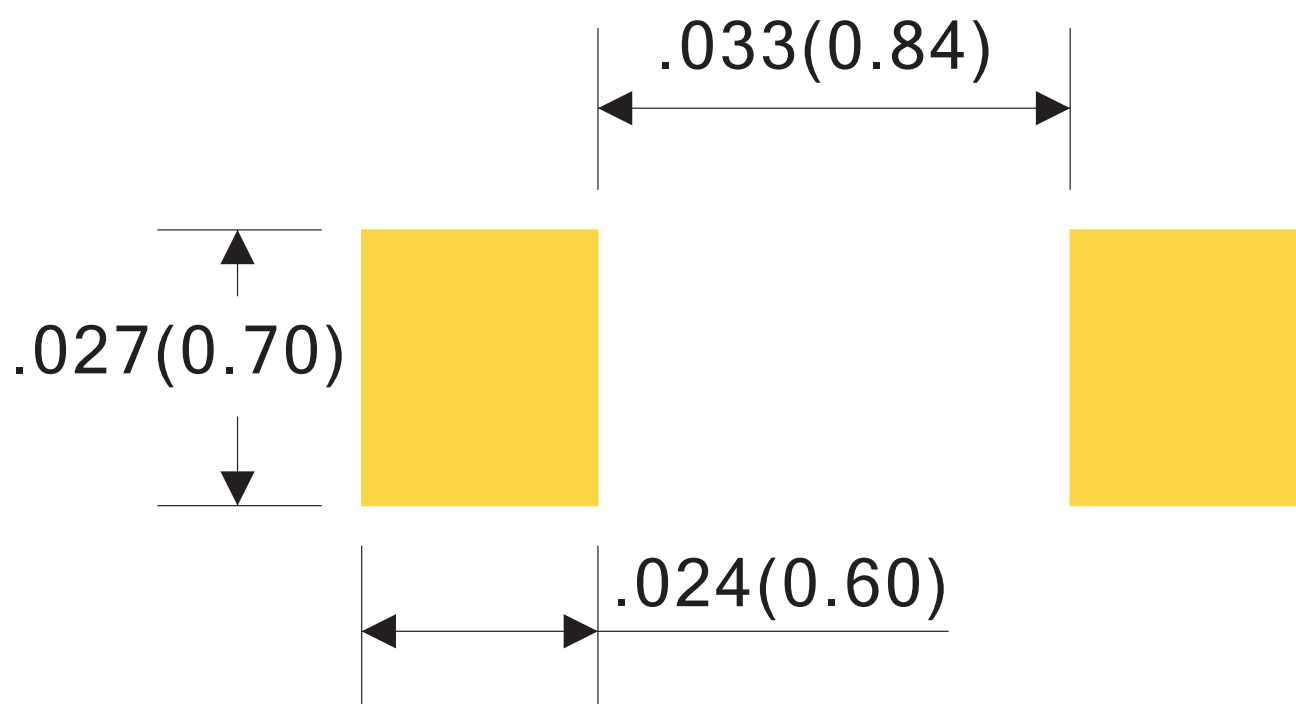


Dimensions in inches and (millimeters)

Rev.C

Suggested Soldering Pad Layout

SOD-523



Dimensions in inches and (millimeters)

Rev.A

Device PN	Packing
мбпмпн ² ¢ -T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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