

Switching Diodes

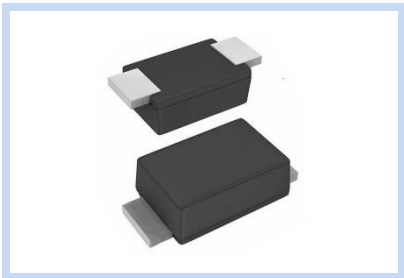
200mW SOD-523

1SS400

MERITEK

FEATURE

- Power Dissipation: 200mW
- 80V Continuous Reverse Voltage
- 225mA Continuous Forward Current
- Fast Switching Speed
- Low Capacitance



MECHANICAL DATA

- Case: SOD-523, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color Band Denotes Cathode End



MAXIMUM RATING

Parameter	Symbol	Value	Units
Peak Reverse Voltage	V_{RM}	90	V
Continuous Reverse Voltage	V_R	80	V
Continuous Forward Current	I_F	225	mA
Non-Repetitive Peak Forward Current, $t=0.001ms$, Square Wave	I_{FSM}	4.0	A
Total Power Dissipation	P_{TOT}	200	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	625	$^{\circ}C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55~150	$^{\circ}C$

Note: FR-5 Board = 1x0.75x0.062 inch.

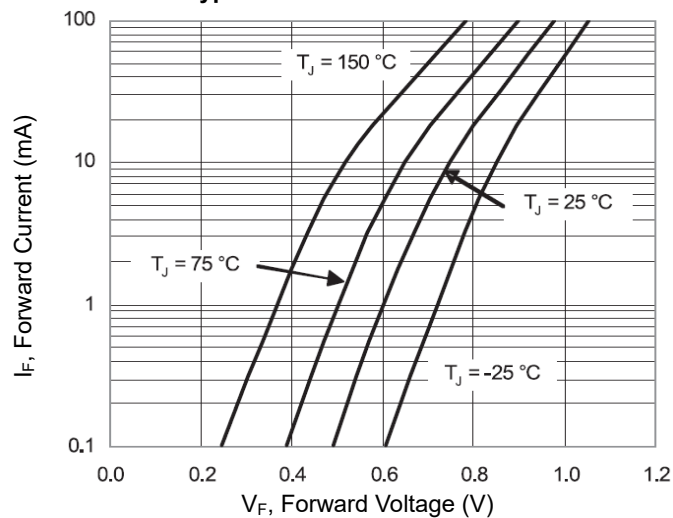
ELECTRICAL CHARACTERISTICS

Parameter	Test Condition	Symbol	Min	Typ	Max	Units
Forward Voltage	$I_F=100mA$	V_F	-	-	1.2	V
Reverse Leakage Current	$V_R=80V$	I_R	-	-	0.1	μA
Junction Capacitance	0Vdc Bias, $f=1MHz$	C_D	-	3	-	pF
Reverse Recovery Time	$I_F=10mA, I_R=10mA, R_L=100\Omega$; measured at $I_{Rec}=1mA$	T_{RR}	-	-	4.0	ns

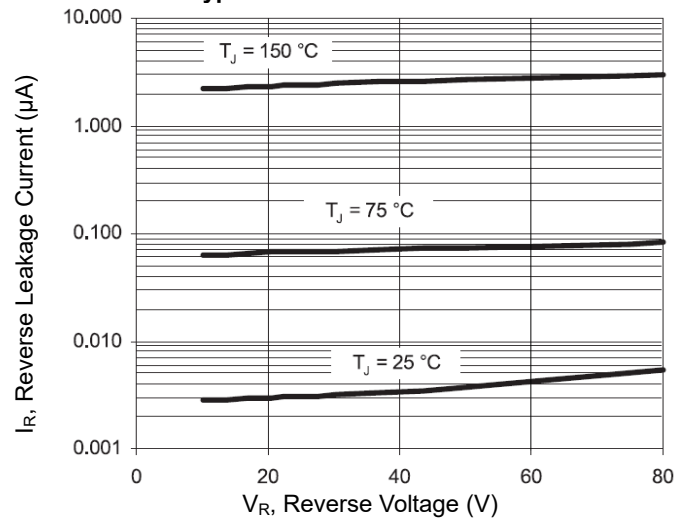
Note:
1. $T_A = 25^{\circ}C$ unless otherwise specified.
2. Short duration pulse test to avoid self-heating effect.

CHARACTERISTIC CURVES

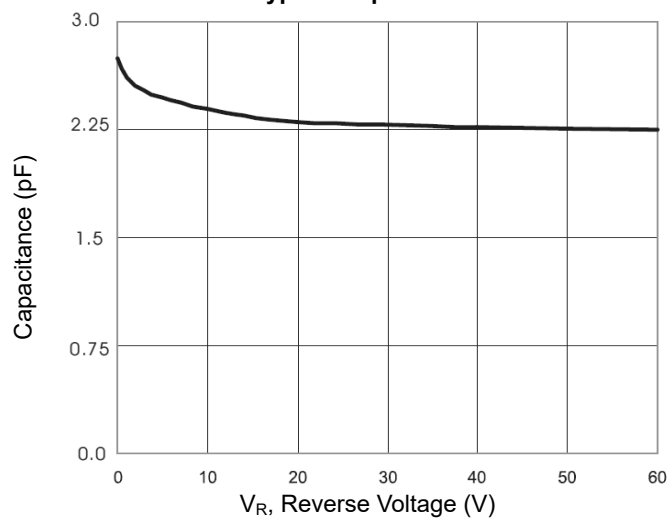
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Capacitance



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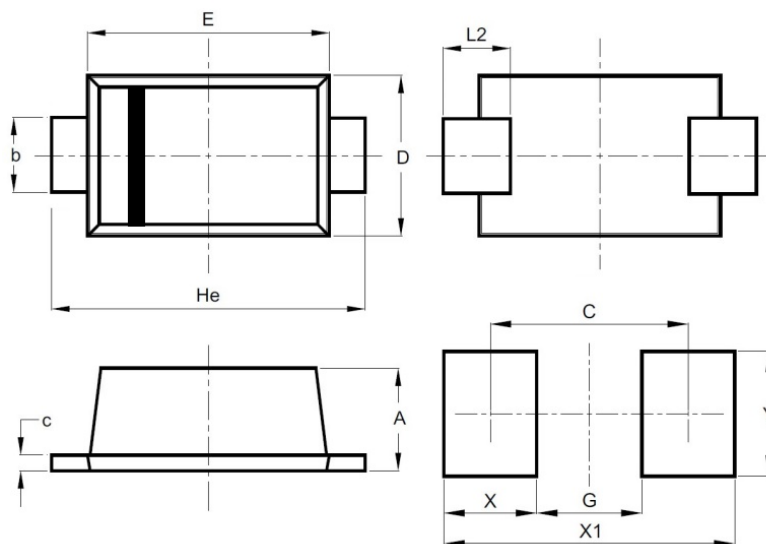
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DIMENSIONS

SOD-523	Min (mm)	Max (mm)
A	0.55	0.65
b	0.25	0.35
c	0.05	0.15
D	0.75	0.85
E	1.15	1.25
He	1.50	1.70
L2	0.20	-
G	0.94	
C	1.47	
X	0.53	
X1	2.00	
Y	0.50	



*Specifications subject to change without notice.