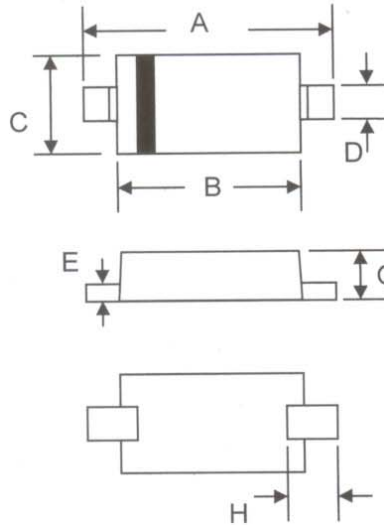


Features

- High Conductance
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Application
- Plastic Material – UL Recognition Flammability Classification 94V-0

Mechanical Data

- Case: SOD-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.004 grams (approx.)
- Marking: A3



SOD-323		
Dim	Min	Max
A	2.30	2.70
B	1.75	1.95
C	1.15	1.35
D	0.25	0.35
E	0.05	0.15
G	0.70	0.95
H	0.30	—
All Dimensions in mm		

Maximum Ratings @ $T_A=25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Value	Unit	
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V	
Peak Repetitive Reverse Voltage	V_{RRM}	75	V	
Working Peak Reverse Voltage	V_{RWM}			
DC Blocking Voltage	V_R			
RMS Reverse Voltage	$V_{R(RMS)}$	53	V	
Forward Continuous Current (Note 1)	I_{FM}	500	mA	
Average Rectified Output Current (Note 1)	I_O	250	mA	
Non-Repetitive Peak Forward Surge Current	I_{FSM}	@ $t = 1.0\mu\text{s}$ @ $t = 1.0\text{s}$	4.0 2.0	A
Power Dissipation (Note 1)		P_d	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	625	K/W	
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150	$^\circ\text{C}$	

Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

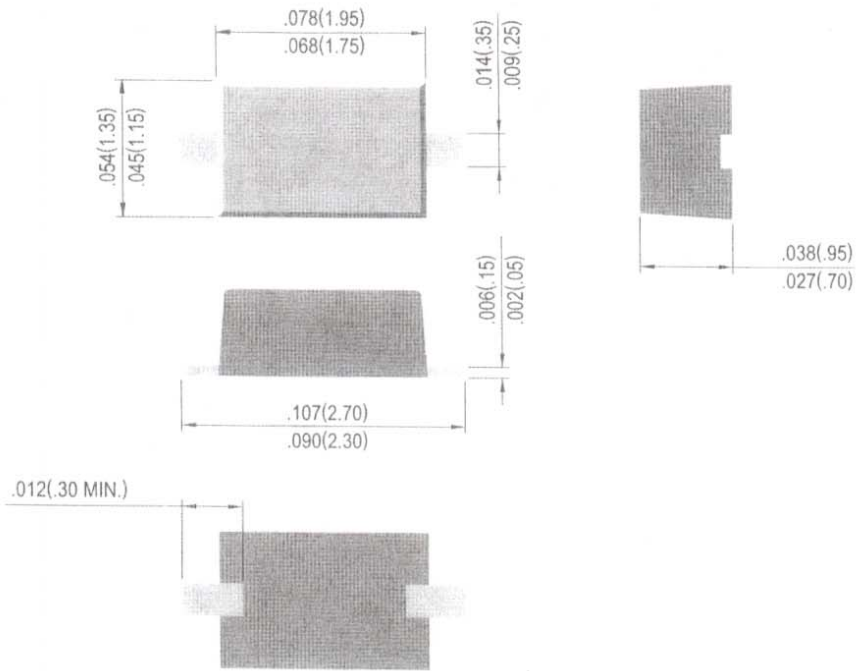
Characteristic	Symbol	Value	Unit	
Forward Voltage Drop	V_{FM}	@ $I_F = 5.0\text{mA}$ @ $I_F = 100\text{mA}$	0.72 1.0	V
Peak Reverse Leakage Current		I_{RM}	@ $V_R = 75\text{V}$	2.5
Junction Capacitance ($V_R = 0\text{V DC}$, $f = 1.0\text{MHz}$)	C_j		4.0	pF
Reverse Recovery Time (Note 2)	t_{rr}		4.0	nS

Note: 1. Valid provided that terminals are kept at ambient temperature.
2. Measured with $I_F = I_R = 10\text{mA}$, $I_{RR} = 0.1 \times I_R$, $R_L = 100\Omega$.

OUTLINE DRAWING



SOD-323



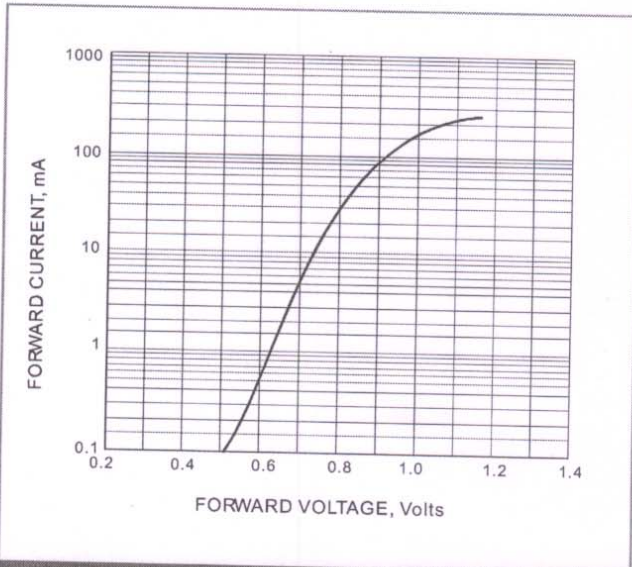


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

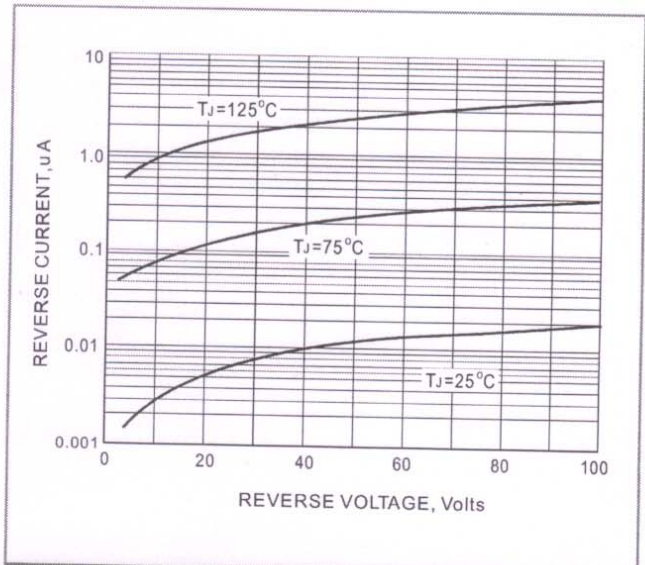


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

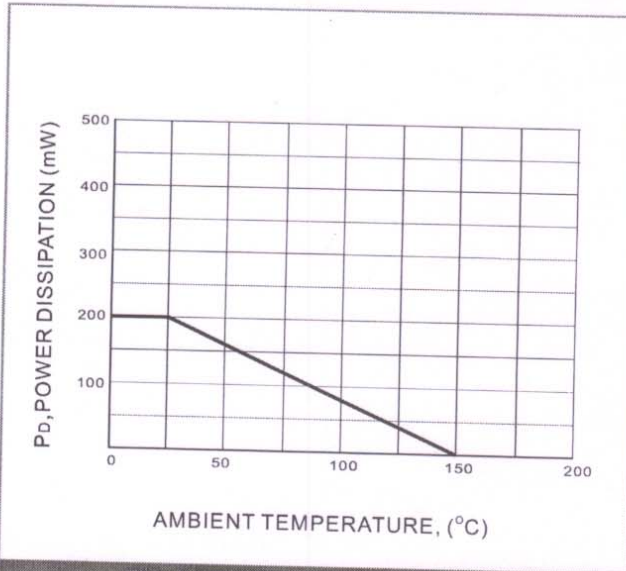


FIG. 3 POWER DERATING CURVE

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