SDM10K45

SURFACE MOUNT SCHOTTKY DIODE

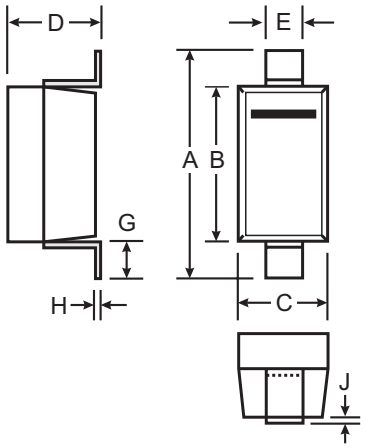
NEW PRODUCT

Features

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance

Mechanical Data

- Case: SOD-323, Molded Plastic
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Marking: LG
- Weight: 0.006 grams (approx.)



SOD-323		
Dim	**Min**	**Max**
A	2.30	2.70
B	1.60	1.80
C	1.20	1.40
D	1.05 Typical	
E	0.25	0.35
G	0.20	0.40
H	0.10	0.15
J	0.05 Typical	
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	45	V
RMS Reverse Voltage	$V_{R(RMS)}$	40	V
Average Rectified Forward Current	I_O	100	mA
Forward Surge Current @ t < 8.3ms	I_{FSM}	1.0	A
Power Dissipation	P_d	200	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	625	°C/W
Operating and Storage Temperature Range	T_j , T_{STG}	-40 to +125	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 1)	$V_{(BR)R}$	45	—	—	—	I_R = 100μA
Forward Voltage (Note 1)	V_{FM}	—	370	450	mV	I_F = 10mA
Reverse Leakage Current (Note1)	I_{RM}	—	0.07	1.0	μA	V_R = 10V
Junction Capacitance	C_j	—	6.0	—	pF	V_R = 10V, f = 1.0MHz

Note: 1. Short duration pulse test to minimize self-heating effect.