SLCA5.0-SLCA50

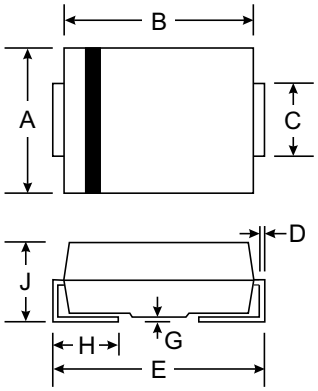
400 Watts Surface Mount Transient Voltage Suppressor

Features

- 400W Peak Pulse Power Dissipation
- 5.0V - 50V Standoff Voltages
- Glass Passivated Die Construction
- Uni- and Bi-Directional Versions Available
- Excellent Clamping Capability
- Fast Response Time
- Plastic Material: UL Flammability
- Classification Rating 94V-0

Mechanical Data

- Case: SMA, Transfer Molded Epoxy
- Terminals: Solderable per MIL-STD-202, Method 208
- Polarity Indicator: Cathode Band (Note: Bi-directional devices have no polarity indicator.)



SMA		
Dim	**Min**	**Max**
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Pulse Power Dissipation (Non repetitive current pulse derated above T_A = 25°C) (Note 1)	P_{PK}	400	W
Peak Forward Surge Current, 8.3ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method) (Notes 1, 2, & 3)	I_{FSM}	40	A
Instantaneous Forward Voltage @ I_{PP} = 35A (Notes 1, 2, & 3)	V_F	3.5	V
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150	°C

Notes: 1. Valid provided that terminals are kept at ambient temperature.
2. Measured with 8.3ms single half sine-wave. Duty cycle = 4 pulses per minute maximum.
3. Unidirectional units only.

TYPE	Reverse Stand-off Voltage	Maximum Reverse Leakage @ V_{WM}	Breakdown Voltage @ I_T	Test Current	Maximum Clamping Voltage @ I_{PPM}	Maximum Peak Pulse Surge Current (See Fig. 2)	Working Inverse Blocking Voltage	Inverse Blocking Leakage V_{WIB}
	V_{WM}	I_R	V_{BR} (V)	I_T	V_C	I_{PPM}	V_{WIB}	I_B
	(V)	(μA)	Min.	**(mA)**	(V)	(A)	(V)	**(mA)**
SLCA5.0	5.0	300	7.60	1	10.0	50.0	75	1
SLCA6.0	6.0	300	7.90	1	11.2	45.0	75	1
SLCA7.0	7.0	300	8.33	1	12.6	40.0	75	1
SLCA8.0	8.0	100	8.89	1	13.4	37.0	75	1
SLCA8.5	8.5	50	9.44	1	14.0	36.0	75	1
SLCA10	10	1	11.10	1	16.3	31.0	75	1
SLCA12	12	1	13.30	1	19.0	26.0	75	1
SLCA15	15	1	16.70	1	23.6	21.0	75	1
SLCA18	18	1	20.00	1	28.8	17.0	75	1
SLCA22	22	1	24.40	1	35.4	14.0	75	1
SLCA26	26	1	28.90	1	42.3	12.0	75	1
SLCA30	30	1	33.30	1	48.6	10.0	75	1
SLCA36	36	1	40.00	1	60.0	8.0	75	1
SLCA45	45	1	50.00	1	77.0	6.0	150	1
SLCA50	50	1	55.00	1	88.0	6.0	150	1