

■ Features

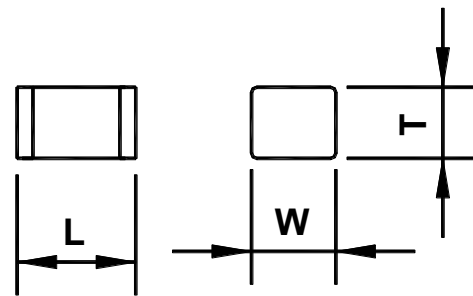
- Surge current capacity 2KA 8/20us
- Surge current capacity 6KV 10/700us
- Surface Mounted Gas Arrester
- Storage and operational temperature: -40~+90°C
- Micro-Gap Design
- Without Radioactivity



■ Applications

- Communication equipment
- CATV equipment
- Test equipment
- Data lines
- Power supplies
- Telecom SLIC protection
- Broadband equipment
- DSL equipment, including ADSL2+
- XDSL equipment
- Satellite and CATV equipment
- General telecom equipment

■ Dimensions



W	3.2±0.3mm
T	2.7±0.3mm
L	4.5±1.0mm

■ PartNumber Code

SMD4532-090M

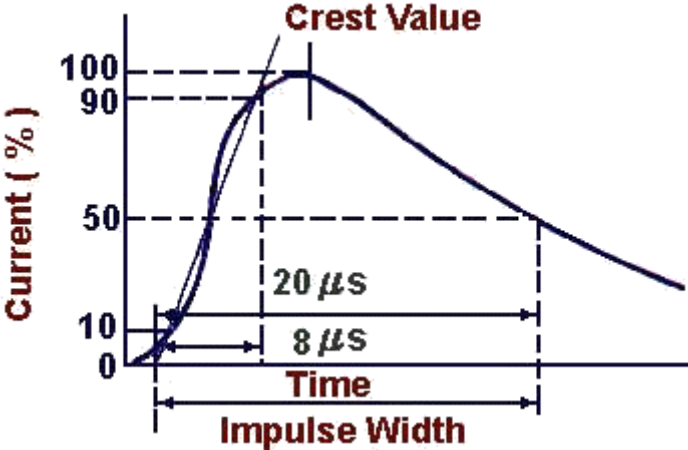
- SMD:Surface Mount Package
- 4532: Size: 4.5mm*3.2mm*2.7mm
- 090: DC Breakdown Voltage 90V
- M: Tolerance of DC Spark-Over Voltage
M:20% N: 30%



■ Electrical Specification

Model	DC Breakdown Voltage 100v/s	Impulse Discharge Current	Impulse Withstanding Voltage Capacity	Impulse Spark-over Voltage 1kv/ μ s	Insulation Resistance	Capacitance (1MHz 1KV)
SMD4532-075N	75V 55~95	8/20 μ s 2000A 2Times	10/700 μ s 6kV Positive/ Negative 5 Times 8/20 μ s 1000A 10Times 10/1000 μ s 8/20 μ s 100A 100Times	≤ 650 v	1G Ω Min (DC 100V)	1 pF Max.
SMD4532-090M	90V 78~108			≤ 650 v		
SMD4532-120N	120V 84~156			≤ 650 v		
SMD4532-150M	150V 120~180			≤ 650 v		
SMD4532-200M	200V 160~240			≤ 650 v		
SMD4532-230M	230V 184~276			≤ 650 v		
SMD4532-300N	300V 210~390			≤ 650 v		
SMD4532-350M	350V 280~420			≤ 850 v		
SMD4532-40M	400V 320~480			≤ 900 v	1G Ω Min (DC 250V)	
SMD4532420M	420V 336~504			≤ 900 v		
SMD4532-470M	470V 376~564			≤ 950 v		
SMD4532-500M	500V 400~600			≤ 1000 v		
SMD4532-600M	600V 480~720			≤ 1050 v		

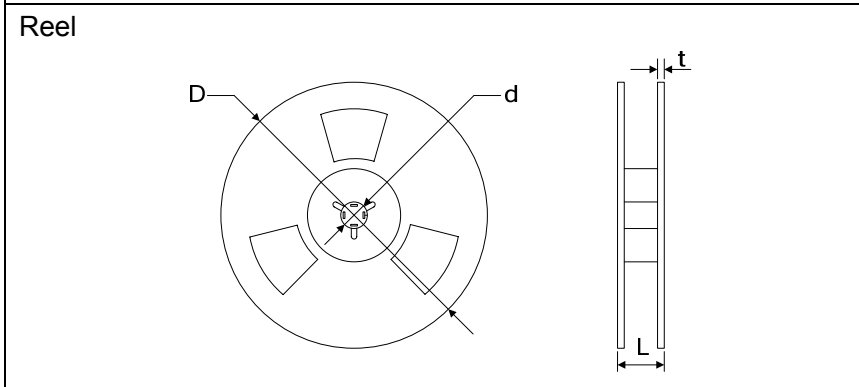
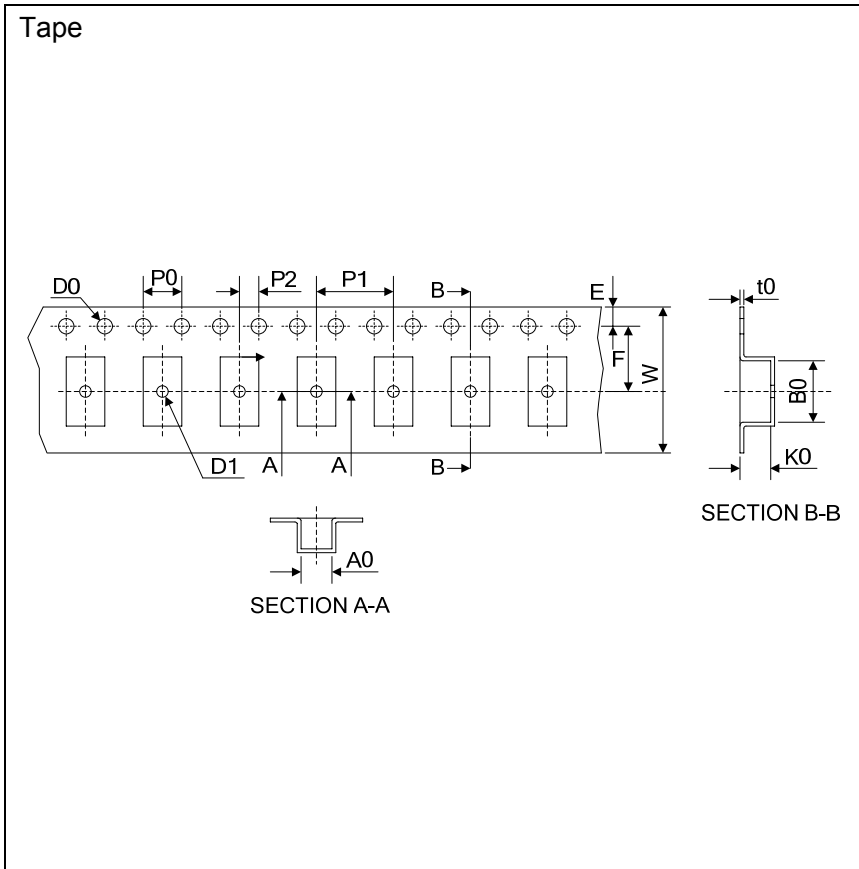
■ Electrical Rating

Item	Test Condition / Description	Requirement
DC Breakdown Voltage	The voltage is measured with a low rate of rise $dv / dt \cong 100 \text{ v/s}$	
Maximum Impulse Breakdown Voltage	The maximum impulse breakdown voltage is measured with a rise time of $dv / dt \cong 1000 \text{ v/}\mu\text{s}$	
Maximum Impulse Discharge Current	<p>The maximum current within gas tube voltage change of $\pm 20\%$ when one impulse is applied. Applied waveform : 8/20μsec</p> 	To meet the specified value
DC Holdover Voltage	The maximum DC voltage across the two terminals of gas tube under which it may be expected to return to the high impedance state after the gas tube breakdown.	
Insulation Resistance	The resistance of gas tube shall be measured each terminal to each other terminal.	
	Applied voltage: gas tube dc breakdown voltage under 150V, the test voltage is 50V dc; with all other types at 100V dc.	
Capacitance	The capacitance of gas tube shall be measured each terminal to each other terminal. Test frequency: 1 KHZ	
	In measurements involving 3-electrode gas tubes, the terminal not being tested shall be connected to a ground plane.	



■ Packaging

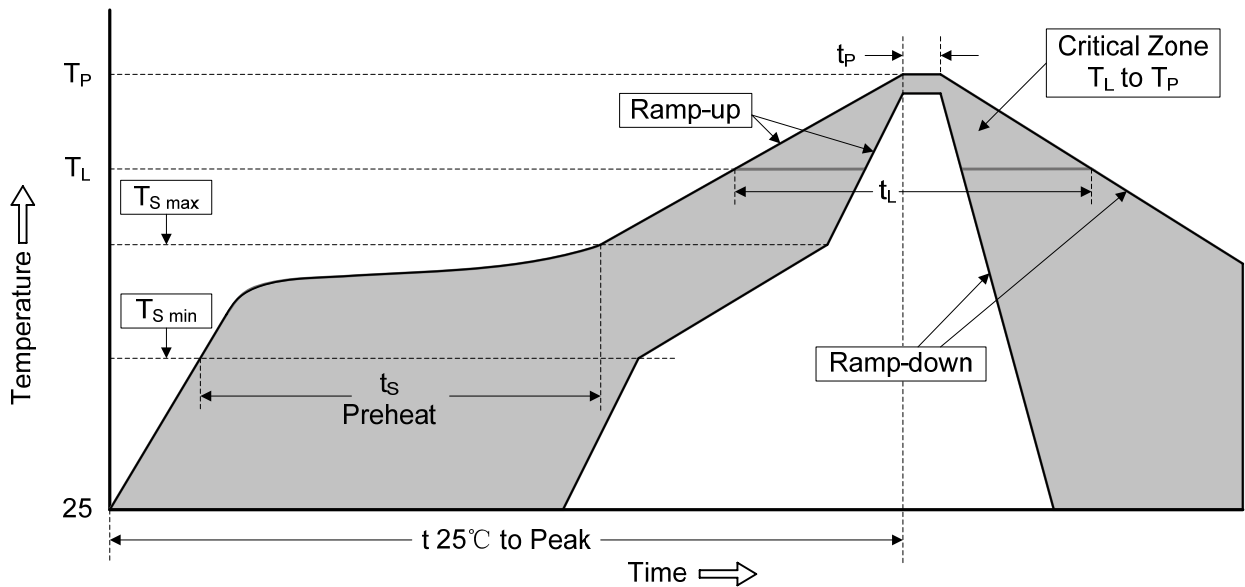
Items	Dimension (mm)	
	Spec.	Tolerance
W	12.00	±0.20
P0	4.00	±0.10
P1	8.00	±0.20
P2	2.00	±0.10
D0	1.55	±0.10
D1	1.00	±0.10
E	1.75	±0.10
F	5.50	±0.10
A0	3.80	±0.10
K0	3.20	±0.10
B0	4.90	±0.10
t0	0.40	±0.10
D	330.00	±1.00
d	13.00	±0.50
L	16.00	±0.50
t	2.00	±0.20
Quantity: 2500pcs		





■ Recommended Soldering Conditions

Reflow Soldering



Recommended Conditions

Profile Feature	Pb-Free Assembly
Average ramp-up rate (T _L to T _P)	3°C/second max.
Preheat -Temperature Min (T _{S min}) -Temperature Max (T _{S max}) -Time (min to max) (t _s)	150°C 200°C 60-180 seconds
T _{S max} to T _L -Ramp-up Rate	3°C/second max.
Time maintained above: -Temperature (T _L) -Time (t _L)	217°C 60-150 seconds
Peak Temperature (T _P)	260°C
Time within 5°C of actual Peak Temperature (t _p)	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

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