

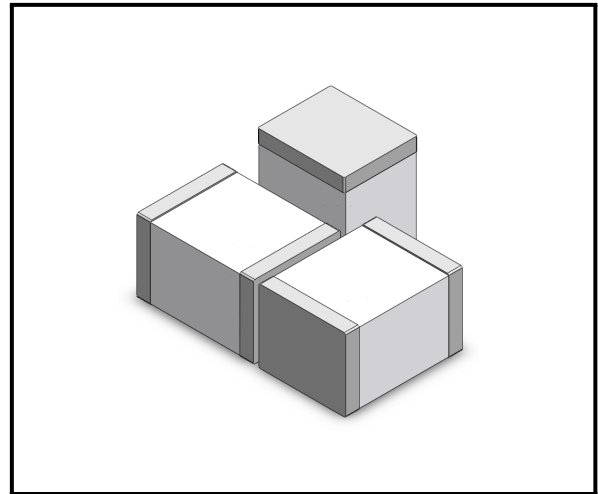
SMD4532-XXXNB

GDT Protection Component

Features

- High insulation resistance
- Ultra low capacitance (<1pF)
- 2KA /1KA surge capability tested with 8/20us pulse as defined by IEC61000-4-5
- 6KV 10/700μs maximum surge rating in accordance with ITU-TK.21
- Surface mounted gas arrester
- Size 4532(1812)
- Storage and operating temperature: -40°C ~ +85°C

Package



Applications

- Communication equipment
- CATV equipment
- Test equipment
- Data lines
- Power supplies
- Telecom SLIC protection

Applications

- Broadband equipment
- ADSL equipment, including ADSL2+
- XDSL equipment
- Satellite and CATV equipment
- General telecom equipment

Ordering information

Order code	Package	Base qty	Delivery mode
SMD4532-XXXNB	1812	2500	Tape and Reel



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Absolute Maximum Ratings ($T_A = +25^\circ\text{C}$, unless otherwise noted)

Part Number	DC Sparkover Voltage	Maximum Impulse Spark-over Voltage	Minimum Insulation Resistance		Max. Capacitance	Impulse withstanding Voltage Capacity	Nominal Impulse Discharge Current
	100V/S	1KV/us	(GΩ)	Test DC Voltage	1MHZ	10/700us ±5times	8/20us ±5times
	(V)	(V)		(V)	(pF)	(KV)	(KA)
SMD4532-075NB	75±30%	600	1	25	1	6	2
SMD4532-090NB	90±30%	700	1	25	1	6	2
SMD4532-150NB	150±30%	700	1	25	1	6	2
SMD4532-200NB	200±30%	750	1	100	1	6	2
SMD4532-230NB	230±30%	750	1	100	1	6	2
SMD4532-300NB	300±30%	900	1	100	1	6	2
SMD4532-350NB	350±30%	950	1	100	1	6	2
SMD4532-400NB	400±30%	1000	1	100	1	6	2
SMD4532-470NB	470±30%	1000	1	250	1	6	2
SMD4532-500NB	500±30%	1100	1	250	1	6	2
SMD4532-600NB	600±30%	1200	1	250	1	6	1
SMD4532-800NB	800±30%	1600	1	250	1	6	1
SMD4532-1000NB	1000±30%	1800	1	250	1	6	1

Electrical Parameters

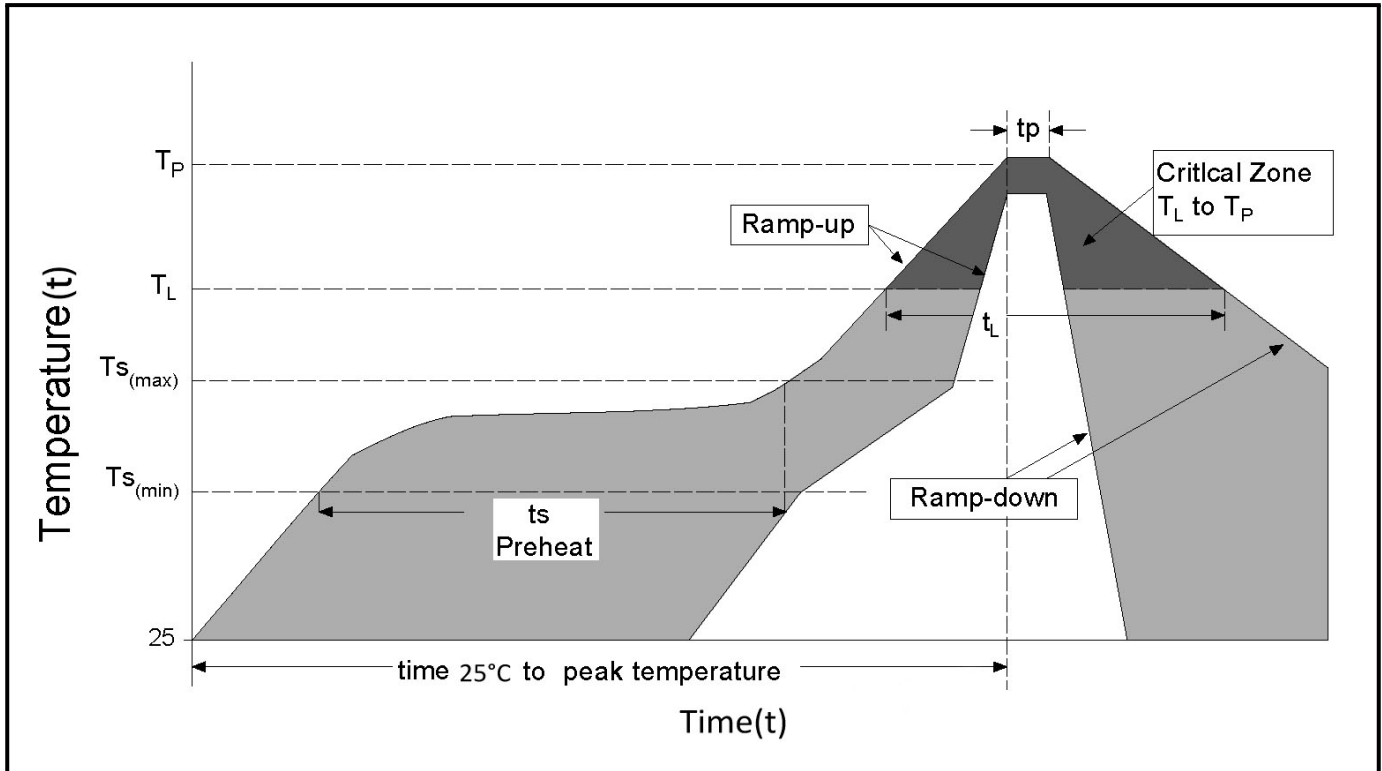
Items	Test Condition/Description	Requirement
DC Spark-over Voltage	The voltage is measured with voltage ramp $dv/dt=100\text{V/s}$.	To meet the specified value
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp $dv/dt=1000\text{V/us}$.	
Insulation Resistance	The resistance of gas tube shall be measured between two electrodes.	
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz	
Nominal Impulse Discharge Current	The maximum current applying a waveform of 8/20μs that can be applied across the terminals of the gas tube. One hour after the test is completed, retesting of the DC spark-over voltage does not exceed ±40% of the nominal DC spark-over voltage. Dwell time between pulses is 3 minutes.	



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Soldering Parameters



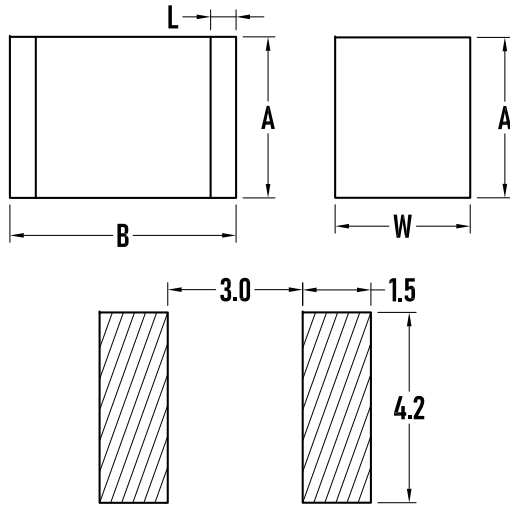
Reflow Condition		Lead-free assembly
Pre Heat	- Temperature Min ($T_{S(\min)}$)	150°C
	- Temperature Max ($T_{S(\max)}$)	200°C
	- Time (min to max) (t_s)	60 - 180 secs
Average ramp up rate (Liquidus Temp (T_L) to peak)		3°C/second max
$T_{S(\max)}$ to T_L - Ramp-up Rate		5°C/second max
Reflow	- Temperature (T_L) (Liquidus)	217°C
	- Time (t_L)	60 - 150 secs
Peak Temperature (T_P)		260 ^{+0/-5} °C
Time within 5°C of actual peak Temperature (t_p)		10 - 30 secs
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (t)		8 minutes Max.
Do not exceed		260°C



SMD4532-XXXNB

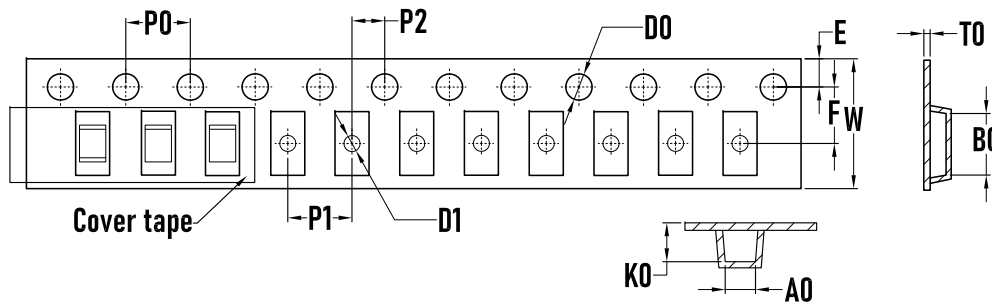
GDT Protection Component

Outline Drawing -1812



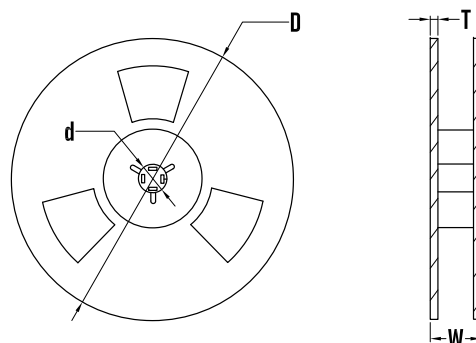
Dim.	Millimeters		
	MIN.	NOW.	MAX.
A	2.9	3.2	3.5
B	4.2	4.5	4.8
W	2.4	2.7	3.0
L	0.4	0.5	0.6

Packaging Tape



SYMBOL	MILLIMETER
A0	3.80±0.10
B0	4.90±0.10
D0	1.45±0.10
D1	1.00±0.10
E	1.75±0.10
F	5.50±0.10
K0	3.20±0.10
P0	4.00±0.10
P1	8.00±0.20
P2	2.00±0.10
W	12.00±0.20
T0	0.40±0.10

Packaging Reel



SYMBOL	MILLIMETER
D	330±2.0
d	13.00±0.5
T	2.0±0.2
W	16.0±0.2
Quantity	2500PCS

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Specifications are subject to change without notice.

Please refer to <http://www.born-tw.com> for current information.

Revision: 2025-Jul-3-B



SMD4532-XXXNB

GDT Protection Component

Cautions and warnings

- Gas discharge tubes (GDT) must not be operated directly in power supply networks.
- Gas discharge tubes (GDT) may become hot in case of longer periods of current stress (danger of burning).
- Gas discharge tubes (GDT) may be used only within their specified values. In the event of overload, the head contacts may fail or the component may be destroyed.
- Damaged Gas discharge tubes (GDT) must not be re-used.

