SMD4532 Series

Description

Gas discharge tubes (GDT) use noble gasses enclosed in ceramic tubes to provide an alternate circuit path for voltage spikes. The ceramic envelope and with nickel connectors allow for high loads. SMD4532 Gas Discharge Tubes (GDT) series has a surge rating of 2kA, 8/20µs.Offered in a Squared Surface Mount package, which helps to make pick and place on PCB process easier.

This GDT series is perfectly suited for broadband equipment applications. The GDT's low off-state capacitance is compatible with high bandwidth applications and this capacitance loading value does not vary if the voltage across the GDT changes.

SMD4532 Gas Discharge Tube (GDT) series are specifically designed for protection of electrical, multimedia, and communication equipment against over voltage transients in surface mount assembly applications.



Electrical symbol



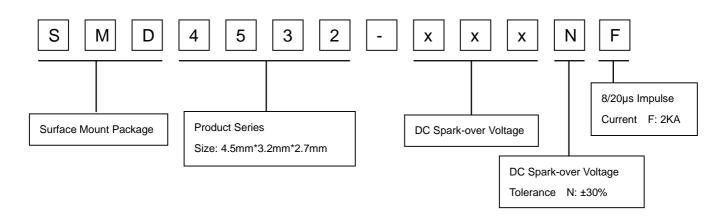
Features

- Excellent response to fast rising transients
- I Stable breakdown voltage
- I GHz working frequency
- I 8/20µs Impulse current capability: 2KA
- I Surface Mount package
- I Non-Radioactive
- I Ultra Low capacitance(<0.5pF) and insertion loss
- I Lead-free and RoHS compliant
- I UL 497B Recognized: E465335
- I Very Small Size(EIA 1812)
- I Storage and operational temperature: -40~+90°C

Applications

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

Part Number Code



Revised: 2017-04-25





SMD4532 Series

Electrical Characteristics

Part Number	DC Spark-over Voltage ^{1) 2)} @100V/S	Impulse Spark-over Voltage		Insulation	Capacitance @1MHz	Life Ratings				
				Resistance		Impulse Discharge		AC	Impulse Withstanding	Impulse Life
		100V/μS	1KV/μS	3)		Current @8/20µS		Discharge Current	Voltage Capacity	@10/1000μS 10A
		Max	Max	Min	Max	Nominal ±5 times	Max 1 time	Nominal 5 times	@10/700µS, 40W ±5 times	Min
	V	V	v	GΩ	pF	KA	KA	Α	κv	Times
SMD4532-070NF	70±30%	500	600	1	0.5	2	3	2	6	100
SMD4532-075NF	75±30%	500	600	1	0.5	2	3	2	6	100
SMD4532-090NF	90±30%	500	600	1	0.5	2	3	2	6	100
SMD4532-120NF	120±30%	500	600	1	0.5	2	3	1	6	100
SMD4532-150NF	150±30%	500	600	1	0.5	2	3	1	6	100
SMD4532-200NF	200±30%	600	700	1	0.5	2	3	1	6	100
SMD4532-230NF	230±30%	600	700	1	0.5	2	3	1	6	100
SMD4532-300NF	300±30%	700	800	1	0.5	2	3	1	6	100
SMD4532-350NF	350±30%	800	900	1	0.5	2	3	1	6	100
SMD4532-400NF	400±30%	850	950	1	0.5	2	3	1	6	100
SMD4532-470NF	470±30%	900	1000	1	0.5	2	3	1	6	100
SMD4532-500NF	500±30%	1000	1100	1	0.5	2	3	1	6	100
SMD4532-600NF	600±30%	1100	1200	1	0.5	2	3	1	6	100
Glow Voltage at 10	mA			~60	OV					
Arc Voltage at 1A				~10	OV					
Glow to Arc transition	on Current			~0.	.3A					
Weight				~0.	.20g					
Operation and stora	age temperatu	ıre		40)~90°C					
Climatic category (I	EC 60068-1).			40/	/090/21					
Marking				Wit	thout					
Surface treatment				Ma	tte-tin plated					

 $^{^{1)}}$ At delivery AQL 0.65 level II, DIN ISO 2859

70V and 75V at DC 25V 90V~150V at DC 50V Other at DC 100V

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Terms in accordance with ITU-T Rec. K.12, IEC 61643-311, GB/T 9043.



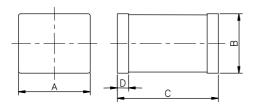
²⁾ In ionized mode

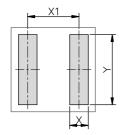
³⁾ Insulation Resistance Measuring Voltage:



SMD4532 Series

Dimensions

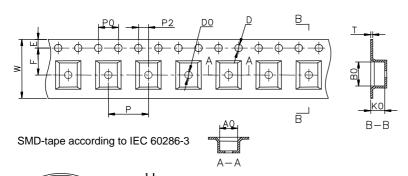


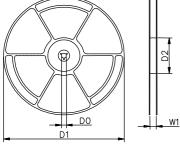


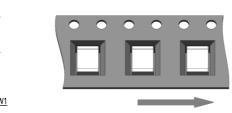
Recommended Soldering Pad Layout

Symbol	Millimeters	Inches		
Α	3.2±0.2	0.126±0.008		
В	2.7±0.2	0.106±0.008		
C	4.5±0.3	0.177±0.012		
D	0.5±0.1	0.020±0.004		
Х	1.5	0.059		
X1	4.5	0.177		
Υ	4.2	0.165		

Taping and Reel Specifications







Direction of Unreeling

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Symbol	Millimeters	Inches		
W	12±0.3	0.472±0.012		
Α0	3.5±0.1	0.138±0.004		
В0	5.3±0.1	0.209±0.004		
K0	2.9±0.1	0.114±0.004		
Р	8.0±0.1	0.315±0.004		
F	5.5±0.1	0.217±0.004		
E	1.75±0.1	0.069±0.004		
D	1.5+0.1/-0.0	0.059+0.004/-0.0		
P0	4±0.1	0.157±0.004		
P2	2±0.1	0.079±0.004		
Т	0.35±0.05	0.014±0.002		
D0	13.3±0.15	0.524±0.006		
D1	330±2	12.992±0.079		
D2	100+1/-2	3.937+0.039/-0.079		
W1	12.5±0.4	0.492±0.016		

Packaging Quantity:

2,500 PCS per reel (13")

3 reels per inner box

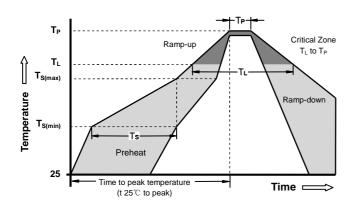
7,500 PCS per inner box





SMD4532 Series

Soldering Parameters - Reflow Soldering (Surface Mount Devices)



Reflow Co	ondition	Pb - Free assembly		
	-Temperature Min (T _{s(min)})	150°C		
Pre Heat	-Temperature Max (T _{s(max)})	200°C		
	- Time (min to max) (t _s)	60 -180 Seconds		
Average r T _L) to pea	amp up rate (Liquids Temp k	3°C/second max		
T _{S(max)} to T	L - Ramp-up Rate	5°C/second max		
Reflow	- Temperature (T _L) (Liquids)	217°C		
	- Time (min to max) (t _s)	60 -150 Seconds		
Peak Tem	perature (T _P)	260 +0/-5°C		
Time with Temperate	in 5°C of actual peak ure (t _p)	10 - 30 Seconds		
Ramp-dov	vn Rate	6°C/second max		
Time 25°C	to peak Temperature (T _P)	8 minutes Max		
Do not ex	ceed	260°C		

Surface mounted components (SMD) may exhibit a temporary increase in the DC spark-over voltage after the solder reflow process. The components will recover within 24 hours. There is no quality defect nor change in protection levels during the temporary change in DC spark-over voltage.

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