

Surge arrester

2-electrode arrester

Series/Type: Ordering code: S25-A90X

B88069X2253T203

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Version: 02

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Surge arrester B88069X2253T203

2-electrode arrester S25-A90X

Features

- Very small size
- Fast response time
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Excellent SMD handling
- RoHS-compatible

Applications

- PCI cards
- Modem
- Splitter
- Line cards
- Application with limited space

Electrical specifications

90 ±20 72 108 < 500 < 400 < 700 < 600	V % V V V V kA	
72 108 < 500 < 400 < 700 < 600	V V V V	
<pre>108 < 500 < 400 < 700 < 600</pre>	V V V V	
< 500 < 400 < 700 < 600	V V V	
< 400 < 700 < 600	V V V	
< 400 < 700 < 600	V V V	
< 700 < 600	V	
< 600	V	
1	ĿΛ	
1	LΛ	
1	KA	
> 1	$G\Omega$	
< 0.5	pF	
~ 10	V	
< 1.0	Α	
~ 60	V	
~ 0.2	g	
–40 +125	°C	
	40/125/21	
40/125/21		

¹⁾ At delivery AQL 0.65 level II, DIN ISO 2859

Terms and current waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21 and IEC 61643-311.

²⁾ In ionized mode

³⁾ Tests according to ITU-T Rec. K.12 and UL 497B

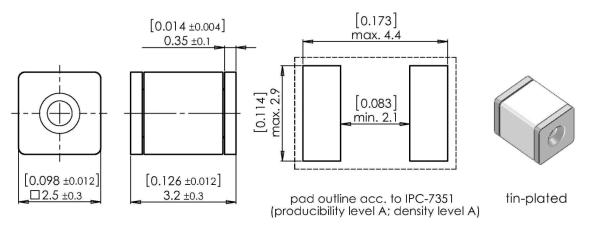


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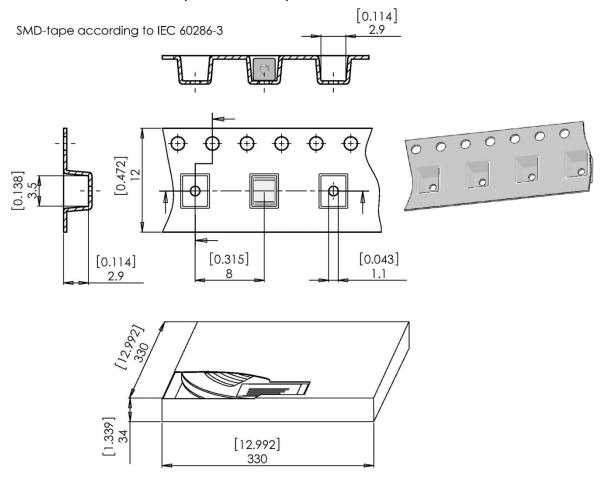
S25-A90X

Dimensional drawing in mm and inch [...]



Ordering code and packing advice

B88069X2253**T203** = 2000 pcs. on SMD-tape



PPD AB PD / PPD AB PM

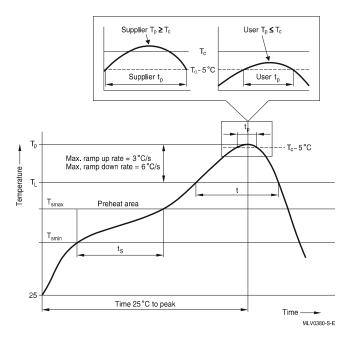


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Soldering parameter

Reflow soldering



Reflow profile features		Sn- Pb eutectic assembly	Pb-free assembly
Preheat and soak - Temperature min - Temperature max - Time Average ramp-up	T_{smin} T_{smax} $t_{smin} \text{ to } t_{smax}$ $T_{smax} \text{ to } T_p$	100 °C 150 °C 60 120 s max. 3 °C/ s	150 °C 200 °C 60 180 s max. 3 °C/s
Liquidous temperature Time at liquidous	T _L	183 °C 60 150 s	217 °C 60 150 s
Peak package body temperature *, Classification temperature **	T _p , T _C	220 235 °C **	245 260 °C **
Time (t _p) ** within 5 °C of the specified classification temperature (T _C)		20 s ***	30 s ***
Average ramp-down rate	T _p to T _{smax}	max. 6 °C/ s	max. 6 °C/ s
Time 25 °C to peak temperature * = Tolerance for peak		max. 6 min	max. 8 min

- T = Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.
- ** = For details please refer to JEDEC J-STD-020D.
- *** = Tolerance for time at peak profile temperature (t_p) is defined as a supplier minimum and a user maximum.

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.

Cautions and warnings

- Do not operate surge arresters in power supply networks, whose maximum operating voltage exceeds the minimum spark-over voltage of the surge arresters.
- Surge arresters may become hot in the event of longer periods of current stress (burn risk). In the event of overload the connectors may fail or the component may be destroyed.
- Surge arresters must be handled with care and must not be dropped.
- Do not continue to use damaged surge arresters.
- The shown SMD pad dimensions represent a safe way to mount the arrester and are a recommendation of the manufacturer. During the reflow process it must be assured that no solder material reduces the insulation distance between the pads below the arrester.
- SMD surge arresters should be soldered within 24 month after shipment.

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