

## Features

- Extremely small size
- Extremely fast response time
- Excellent SMD handing
- Stable performance over life
- Very low capacitance
- High insulation resistance
- Storage and operating temperature -40...+125°C
- RoHS-compatible

## Applications

- Splitter
- PCI Cards
- Modem
- Line cards

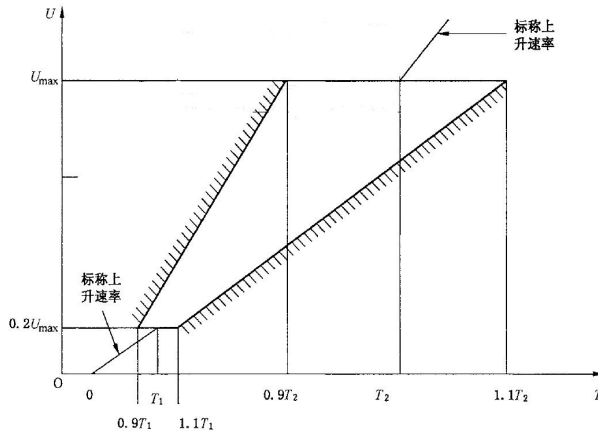
## Electrical specifications

Part Number	DC spark-over Voltage	Max. Impulse Breakdown Voltage	Discharge Current (8/20us)	AC discharge Current	Impulse Life (10/1000us)	Minimum Insulation Resistance		Max. Capacitance 1MHz
	100V/S	1KV/us	10 times	50Hz, 1S	100A	Test Voltage DC(V)	(GΩ)	(Pf)
	%	V	KA	A	Times			

2R075SA-6	75±30	600	5	5	100	50	1	1
2R090SA-6	90±30	600	5	5	100	50	1	1
2R150SA-6	150±20	600	5	5	100	100	1	1
2R230SA-6	230±20	700	5	5	100	100	1	1
2R300SA-6	300±20	900	5	5	100	100	1	1
2R350SA-6	350±20	950	5	5	100	100	1	1
2R400SA-6	400±20	1000	5	5	100	100	1	1
2R470SA-6	470±20	1100	5	5	100	100	1	1
2R600SA-6	600±20	1300	5	5	100	100	1	1
2R800SA-6	800±20	1500	3	3	100	100	1	1
2R1000SA-6	1000±20	1900	3	3	100	100	1	1

Arc voltage at 1 A ~ 10V

## DC breakdown voltage



### 8/20us, Test wave

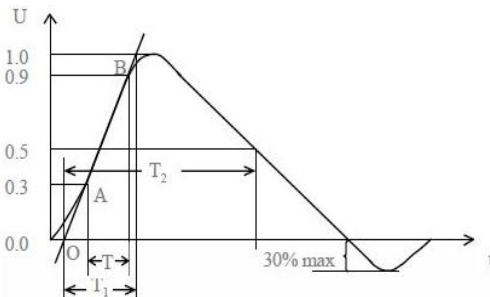
$T1=1.25T=8\mu s \pm 20\%$   
 $T2=20\mu s \pm 20\%$

### 10/700us, Test Wave

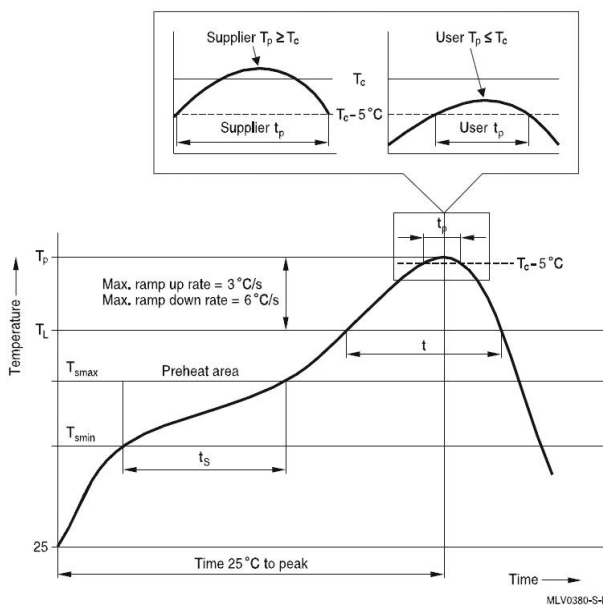
$T1=1.67T=10\mu s \pm 20\%$   
 $T2=700\mu s \pm 20\%$

### 10/1000us, Test Wave

$T1=1.67T=10\mu s \pm 20\%$   
 $T2=1000\mu s \pm 20\%$

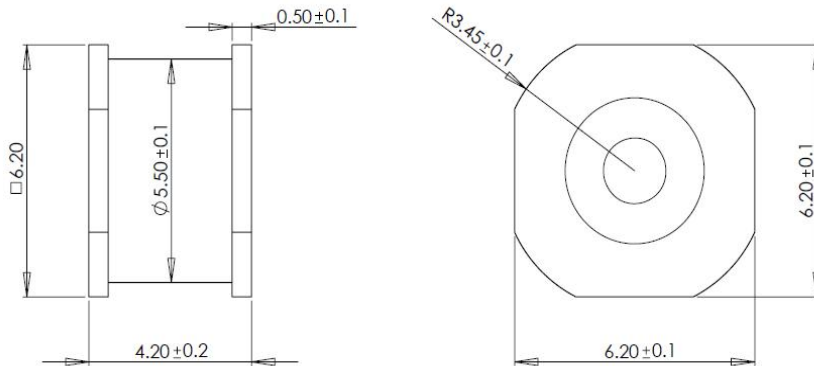


## Recommended wave soldering profile



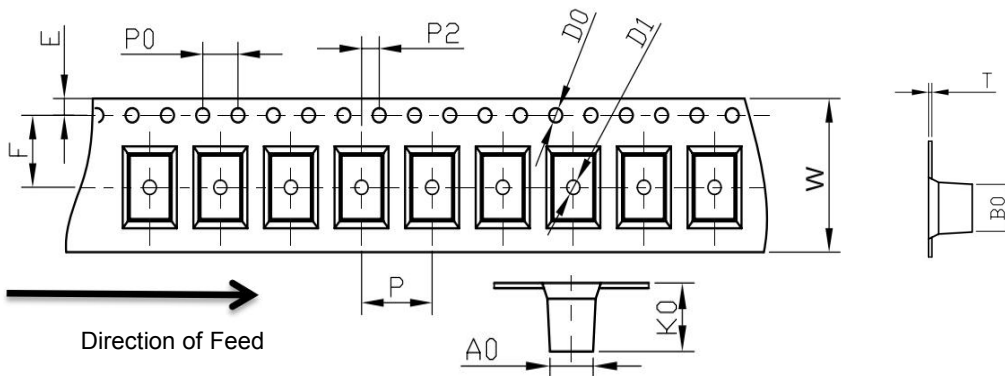
Reflow profile features		Sn- Pb eutectic assembly	Pb-free assembly
Preheat and soak			
- Temperature min	$T_{smin}$	100 °C	150 °C
- Temperature max	$T_{smax}$	150 °C	200 °C
- Time	$t_{smin}$ to $t_{smax}$	60 ... 120 s	60 ... 180 s
Average ramp-up rate	$T_{smax}$ to $T_p$	max. 3 °C/ s	max. 3 °C/ s
Liquidous temperature	$T_L$	183 °C	217 °C
Time at liquidous	$t_l$	60 ... 150 s	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		max. 6 min	max. 8 min
* = 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.			

- 1) Sampling size in accordance to AQL(C=0)
- 2) DC spark-over voltage  $\pm 30\%$  after load
- 3) Tests according to ITU-T Rec. K. 12 and IEC61643-1



## Packaging

One reel with 800pcs



16.00 +0.30 -0.10	4.50 +0.15 -0.15	6.60 +0.15 -0.15	6.55 +0.10 -0.10	0.00 +0.00 -0.00	1.75 +0.10 -0.10	7.50 +0.10 -0.10	8.00 +0.10 -0.10	4.00 +0.10 -0.10	2.00 +0.10 -0.10	1.50 +0.10 -0.00	1.50 +0.10 -0.00	0.50 +0.05 -0.05
<b>W</b>	<b>A<sub>0</sub></b>	<b>B<sub>0</sub></b>	<b>K<sub>0</sub></b>	<b>K<sub>1</sub></b>	<b>E</b>	<b>F</b>	<b>P</b>	<b>P<sub>0</sub></b>	<b>P<sub>2</sub></b>	<b>D<sub>0</sub></b>	<b>D<sub>1</sub></b>	<b>T</b>

## Cautions and warnings

- Surge arresters must not be operated directly in power supply networks
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- If the contacts of the surge arrester are defective, current stress can lead to the formation of sparks and loud noises.
- Surge arresters may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

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