Unictron Technologies Corp.

Surge arrester

3-Electrode arrester — JN3RxxxM series

Features	Applications
● Extremely small size ● Extremely fast response time ● Eexcllent SMD handing ● Stable performance over life ● Very low capacitance ● High insulation resistance ● Storage and operating temperature -40…+125°C ● RoHS-compatible ● UL No:E199538	● Splitter ● PCI Cards ● Morden ● Line cards

Electrical specifications

Part Number	DC Breakdown Voltage	Max. Impulse Breakdown Voltage	Discharge Current (8/20us) L-L	Impulse Life (10/1000us)	Minimum Insulation Resistance		Max. Capacitance 1MHz
	100V/S	1KV/us	10 times	100A			
	V	V	KA	Times	Test Voltage DC(V)	(GΩ)	(pF)
JN3R075M	75±20%	600	10	100	100	1	1
JN3R090M	90±20%	600	10	100	100	1	1
JN3R150M	150±20%	700	10	100	100	1	1
JN3R230M	230±20%	700	10	100	100	1	1
JN3R350M	350±20%	800	10	100	100	1	1
JN3R420M	420±20%	900	10	100	100	1	1
JN3R470M	470±20%	900	10	100	100	1	1
JN3R600M	600±20%	1000	10	100	100	1	1

Marking…… 3R75/3R90/.../3R470/3R600

Part Number Code

JN 3R xxx M

(1) (2) (3) (4)

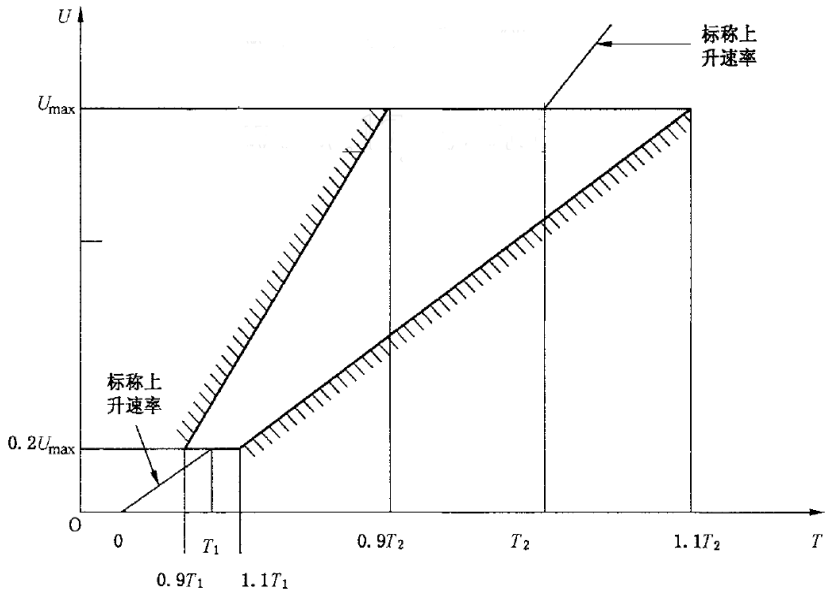
(1) JN: Brand Name;

(2) 3R: 3 Elements.

(3) xxx: DC breakdown Voltage;e.g.,090=90V

(4) M: Series

DC breakdown voltage



8/20us, Test wave

T1=1.25T=8us±20%

T2=20us±20%

10/700us,Test Wave

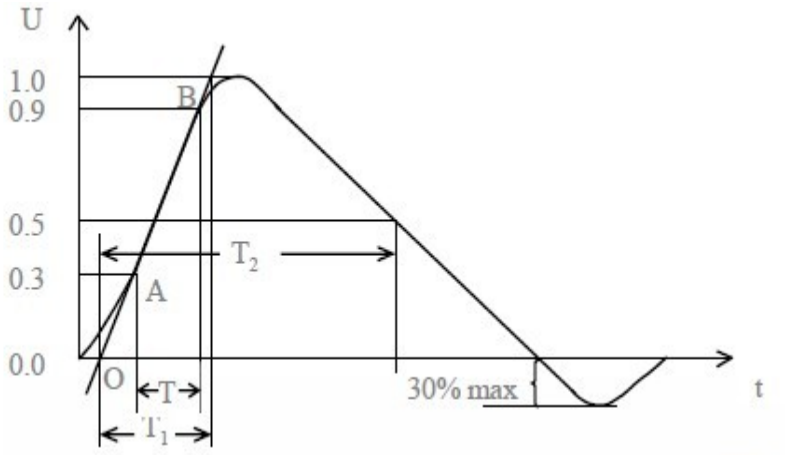
T1=1.67T=10us±20%

T2=700us±20%

10/1000us,Test Wave

T1=1.67T=10us±20%

T2=1000us±20%

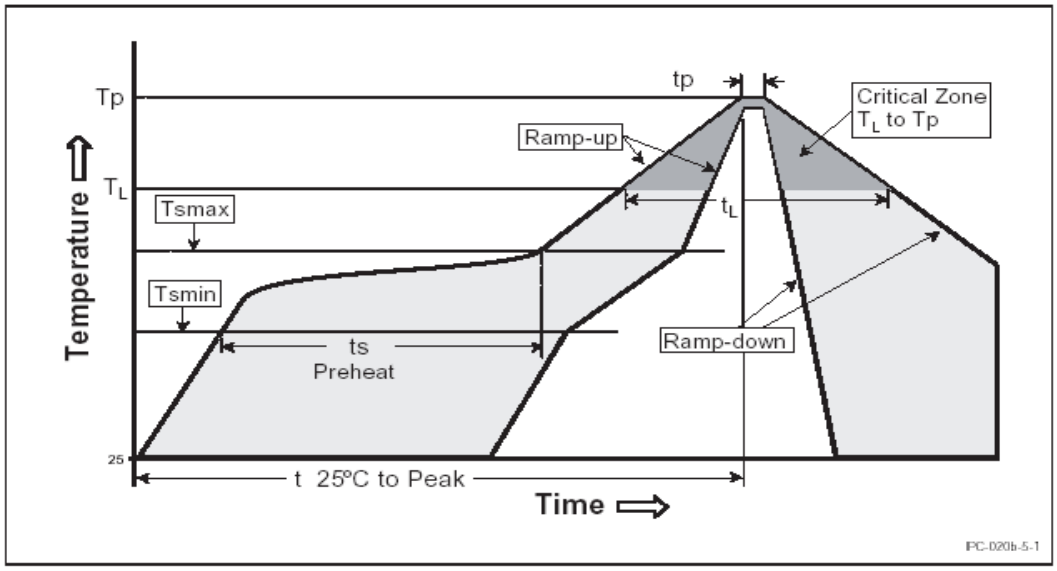


Recommended Soldering(Reflow soldering)

Soldering Method：

- Wave soldering：260℃, 10 Sec. max
- Reflow soldering：260℃, 30 Sec. max
- Hand soldering：350℃, 3 Sec. max

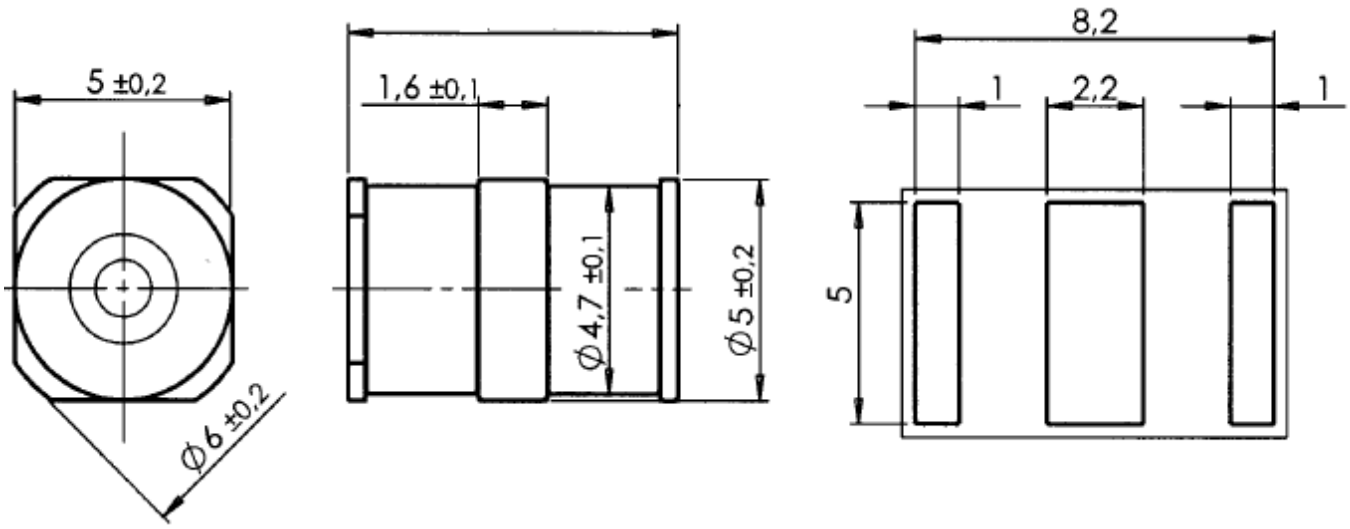
Recommended Reflow Soldering Curve



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

Dimensions

UNIT : mm



Packaging

UNIT : mm