

Surge arrester

2-Electrode arrester

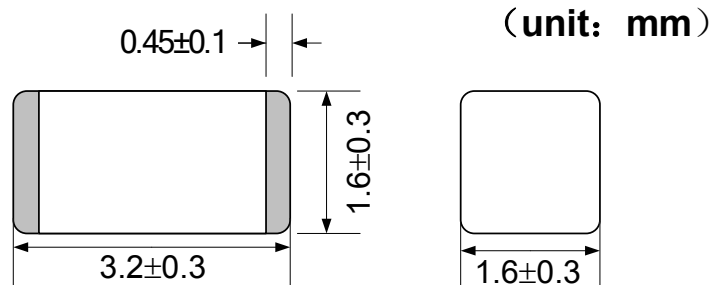
UTC-3216 series

Features	Applications
<ul style="list-style-type: none"> ● Extremely small size ● Extremely fast response time ● Excellent SMD handling ● Stable performance over life ● Very low capacitance ● High insulation resistance ● Storage and operating temperature -40...+125°C ● RoHS-compatible ● UL No:E199538 	<ul style="list-style-type: none"> ● Splitter ● PCI Cards ● Morden ● Line cards

Electrical specifications

Part Number	DC Breakdown Voltage	Max. Impulse Breakdown Voltage	Discharge Current (8/20us)	Impulse Life (10/1000us)	Minimum Insulation Resistance		Max. Capacitance 1MHz	
	100V/S	1KV/us		10 times	100A	Test Voltage DC(V)		(GΩ)
	V	V		A	Times			
UTC-3216-075N	75±30%	650	500	100	50	1	0.5	
UTC-3216-091N	90±30%	600		100	50	1	0.5	
UTC-3216-151N	150±30%	600		100	100	1	0.5	
UTC-3216-201N	200±30%	700		100	100	1	0.5	
UTC-3216-231N	230±30%	800		100	100	1	0.5	
UTC-3216-301N	300±30%	800		100	100	1	0.5	
UTC-3216-351N	350±30%	850		100	100	1	0.5	
UTC-3216-401N	400±30%	900		100	100	1	0.5	
UTC-3216-471N	470±30%	1000		100	100	1	0.5	

Dimensions:

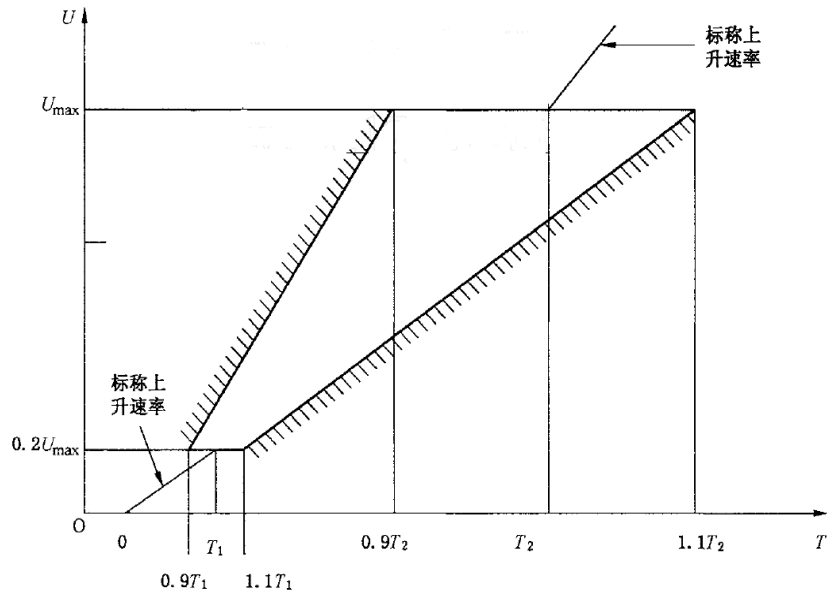


Part Number Code

UTC - 3216 - 091 N
 (1) (2) (3) (4)

- Brand Name;
- (2) Series Code.
- (3) DC breakdown Voltage; e.g., 091:09X10¹ = 90V
- (4) Tolerance is DC breakdown voltage, N=±30%

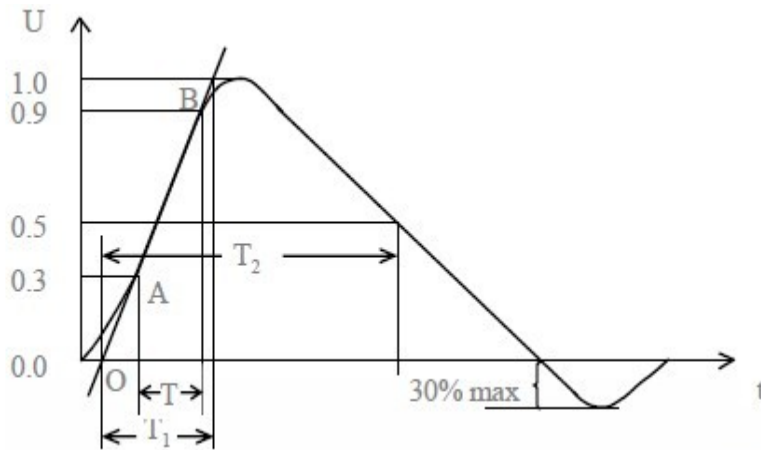
DC breakdown voltage



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%

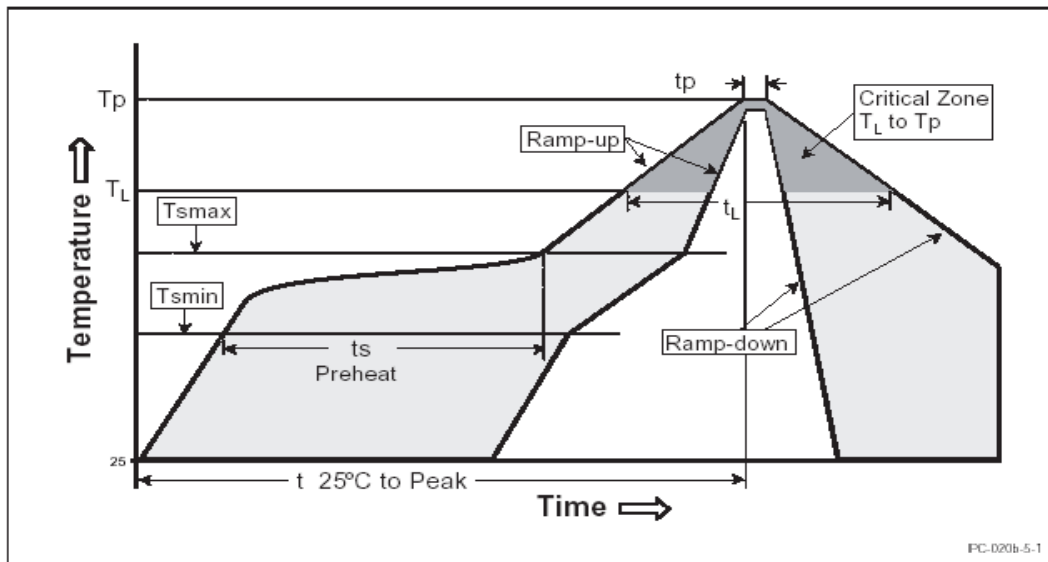


Recommended Soldering(Reflow soldering)

Soldering Method :

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

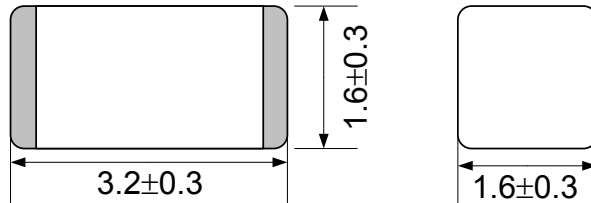
Recommended Reflow Soldering Curve



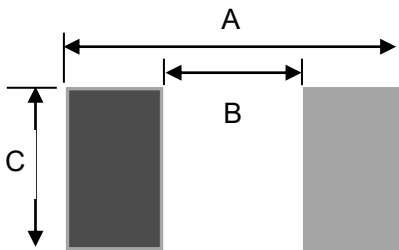
Reflow Condition		Pb-free assembly
Pre Heat	Temperature Min (T_s (min))	150°C
	Temperature Max (T_s (max))	200°C
	Time (Min to Max) (t_s)	60-180 seconds
Average Ramp-up Rate (Liquidus Temp (T_L) to peak)		3°C/second max
T_s (max) to T_L -Ramp-up Rate		5°C/second max
Reflow	Temperature (T_L) (Liquidus)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

Dimensions

(unit: mm)

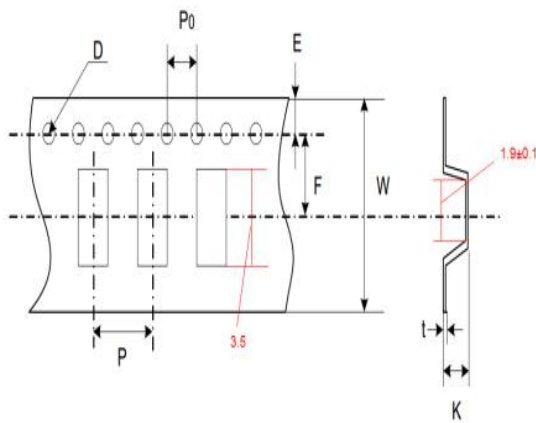


Recommended Soldering Pad



REF	mm
A	4.0
B	1.6
C	2.4

Package Reel Information



NS231Z 3.2*1.6*1.6mm

P	P0	W	F	E	D	K	t
8.0±0.1	4.0±0.1	12.0±0.3	5.45±0.1	1.75±0.1	Φ1.55±0.05	2.0±0.1	0.3±0.05

PACKAGING

Part Number	Component Package	Quantity
UTC-3216 Series	1206	3000