

Electrical Characteristics

Device Specifications (at 25°C)							Life Ratings																
Part Number	DC Voltage 100V/Sec.			DC Voltage 100 V/ μSec.	DC Voltage 1kV/ μSec.	Capacitance (@1Mhz)	Insulation Resistance	AC Current 50Hz 1Sec.x10 ¹	Surge Current 8/20μSec x10 ¹	Max Single Surge 8/20μSec ¹	Max Single Surge 10/350μSec ¹	Surge Life 10/1000 μSecx300 ¹											
	MIN	TYP	MAX				MIN																
SL1021B075	60	75	90	500	650	<1.5pF	>10 ¹⁰ Ω (at 50V)	10Amps	10kA ² 20kA ³	15kA ² 25kA ³	4kA ² 5kA ³	200Amps											
SL1021A090 SL1021B090	72	90	108		600		>10 ¹⁰ Ω (at 100V)				2.5kA ² 5kA ³												
SL1021A145 SL1021B145	116	145	174																				
SL1021A150 SL1021B150	120	150	180																				
SL1021A200	150	200	250	450	650																		
SL1021A230 SL1021B230	184	230	276										450										
SL1021A250 SL1021B250	200	250	300	500	700																		
SL1021A260 SL1021B260	210	260	310	550									700										
SL1021A300 SL1021B300	240	300	360	650	850																		
SL1021A350 SL1021B350	280	350	420	700	900																		
SL1021A400 SL1021B400	320	400	480	850	950																		
SL1021A420 SL1021B420	345	420	500																				
SL1021A450 SL1021B450	360	450	540	900	1000																		
SL1021A500 SL1021B500	400	500	600	950	1100																		
SL1021A600	480	600	720	1000	1200																		

NOTES:

1. Total current through centre electrode, tested in accordance with ITU-T Rec K.12
2. SL1021A series
3. SL1021B series

Additional Information



**Datasheet
SL1021A**



**Datasheet
SL1021B**



**Resources
SL1021A**



**Resources
SL1021B**

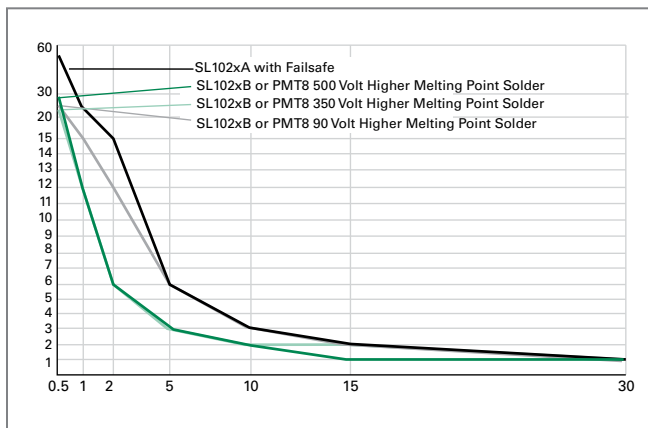


**Samples
SL1021A**

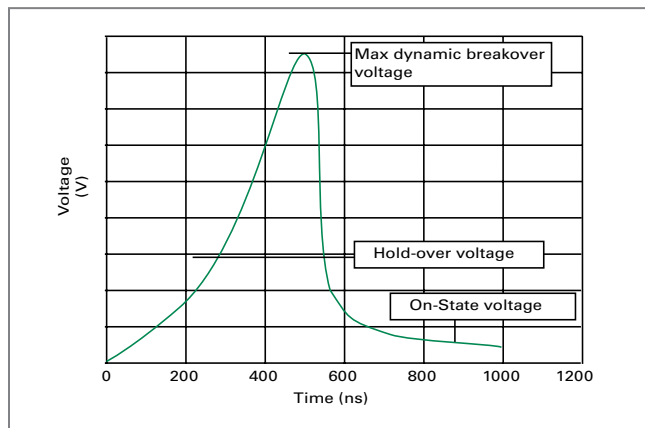


**Samples
SL1021B**

Time vs. Current for Failsafe

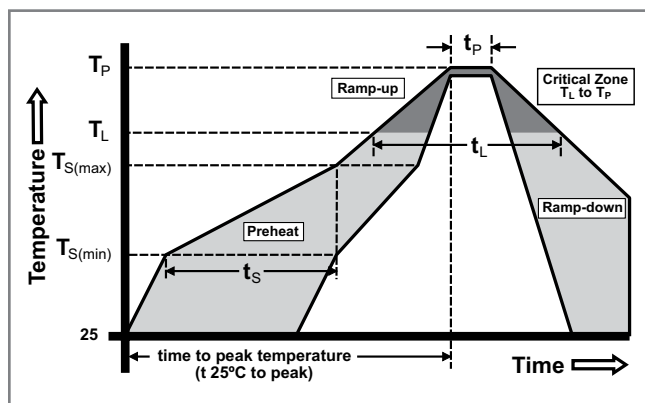


Voltage vs. Time Characteristic



Soldering Parameters - Reflow Soldering (Surface Mount Devices)

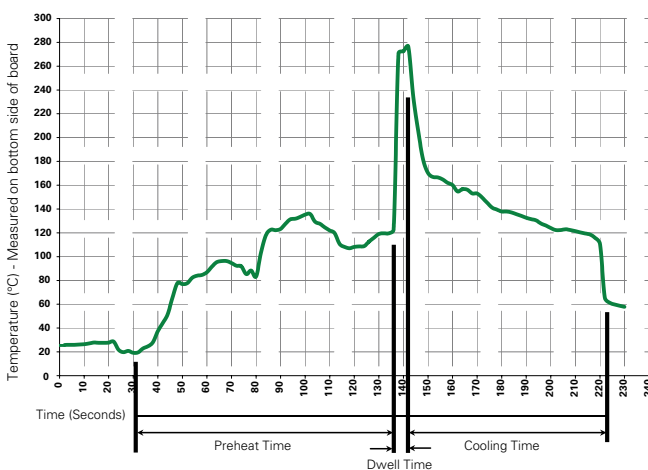
Reflow Condition		Pb – Free assembly
Pre Heat	- Temperature Min ($T_{s(min)}$)	150°C
	- Temperature Max ($T_{s(max)}$)	200°C
	- Time (Min to Max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp (T_L) to peak)		3°C/second max
$T_{s(max)}$ to T_L - Ramp-up Rate		5°C/second max
Reflow	- Temperature (T_L) (Liquidus)	217°C
	- Temperature (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_p)		8 minutes Max.
Do not exceed		260°C



Soldering Parameters - Hand Soldering

Solder Iron Temperature: 350° C +/- 5°C
Heating Time: 5 seconds max.

Soldering Parameters - Wave Soldering (Thru-Hole Devices)



Recommended Process Parameters:

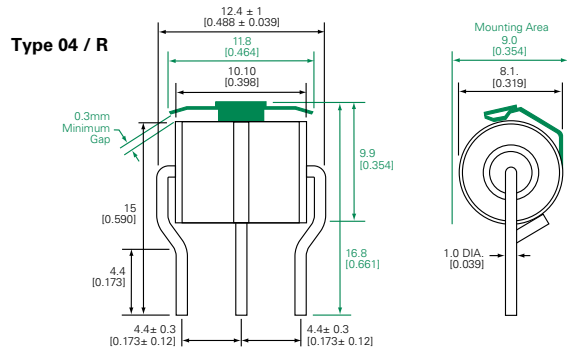
Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flux Activation Temperature)	
Temperature Minimum:	100° C
Temperature Maximum:	150° C
Preheat Time:	60-180 seconds
Solder Pot Temperature:	
Solder Dwell Time:	2-5 seconds

Note: Surge Arrestors with a Failsafe mechanism should be individually examined after soldering

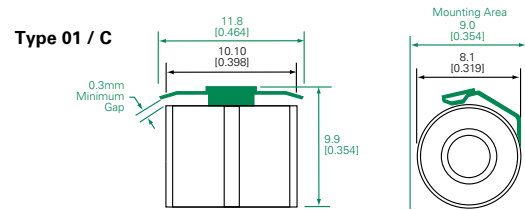
Device Dimensions

NOTE: Failsafe option dimensions shown in green.

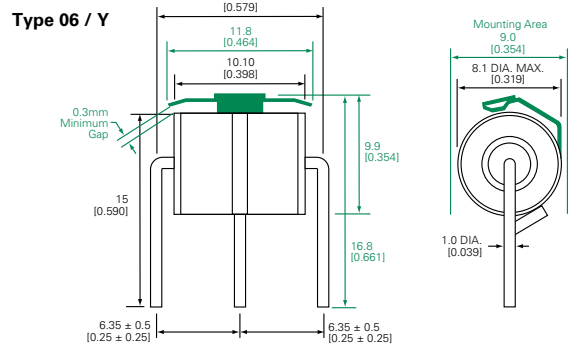
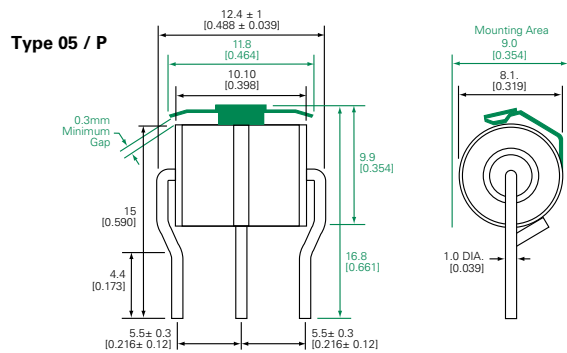
Shaped Radial Leaded Devices:



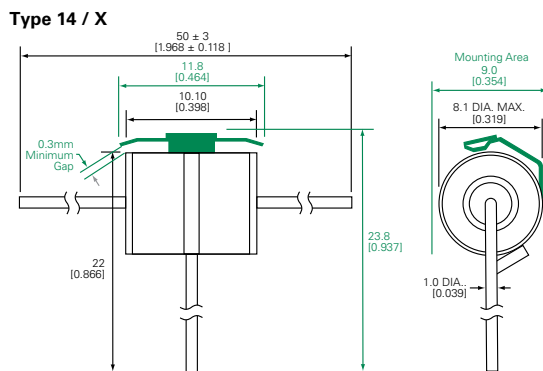
Core Devices:



Straight Radial Leaded Devices:



Straight "T" Leaded Devices:



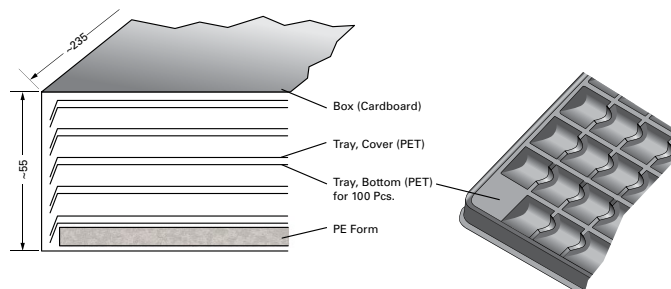
Type "R" is available for SL1021B075 device only.

Part Numbering System and Ordering Information

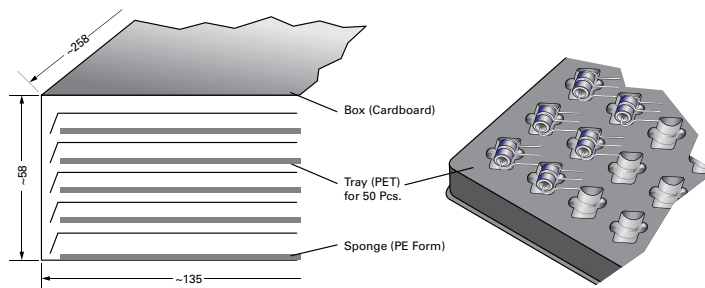
SL102x x xxx x x	PMT8 xxx x x
Series SL1021 SL1024	Series PMT8
Surge Capability A = 10kA B = 20kA	
Breakdown Voltage 090 = 90V 300 = 300V 145 = 145V 350 = 350V 150 = 150V 400 = 400V 200 = 200V 420 = 420V 230 = 230V 450 = 450V 250 = 250V 500 = 500V 260 = 260V 600 = 600V	Breakdown Voltage 090 = 90V 230 = 230V 250 = 250V 350 = 350V 400 = 400V
Configuration Code (See Device Dimensions section) C Y R X P	Configuration Code (See Device Dimensions section) 01 10 04 14 05 60 06
Option Code Blank = No Fail-safe F or G = With Fail-safe	Option Code Blank = No Fail-safe F = With Fail-safe

Packaging

For 'SL1021A/B' device type C, R, P, Y packing



For 'SL1021A/B' device type X packing



Device Type	Description	Quantity
Type C	100pcs/tray x 5 trays per carton	500
Type R	100pcs/tray x 5 trays per carton	500
Type P	100pcs/tray x 5 trays per carton	500
Type Y	100pcs/tray x 5 trays per carton	500
Type X	50pcs/tray x 5 trays per carton	250

* Please contact the factory for further packaging information.

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