

Electrical Characteristics

Device Specifications (at 25°C)						Life Ratings						
Part Number	DC Voltage 100V/Sec.			DC Voltage 100 V/	DC Voltage 1kV/	Capaci- tance	Insulation Resistance	AC Current 50Hz	Surge Current 8/20uSec	Max Single Surge	Max Single Surge	Surge Life 10/1000
Number	MIN	TYP	MAX	μSec.	μSec.	(@1Mhz)	MIN	1Sec.x10 ¹	x10 ¹	8/20µSec ¹	10/350µSec¹	μSecx300¹
SL1021B075	60	75	90	500	650		>10 ¹⁰ Ω (at 50V)				4kA² 5kA³	
SL1021A090 SL1021B090	72	90	108									
SL1021A145 SL1021B145	116	145	174		600							
SL1021A150 SL1021B150	120	150	180									
SL1021A200	150	200	250									
SL1021A230 SL1021B230	184	230	276	450 500	- 650 700 <1.5pF							
SL1021A250 SL1021B250	200	250	300									
SL1021A260 SL1021B260	210	260	310	550		0	>10 ¹⁰ Ω (at 100V)	10Amps	10kA ² 20kA ³	15kA² 25kA³	2.5kA² 5kA³	200Amps
SL1021A300 SL1021B300	240	300	360	650 700	850							
SL1021A350 SL1021B350	280	350	420		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

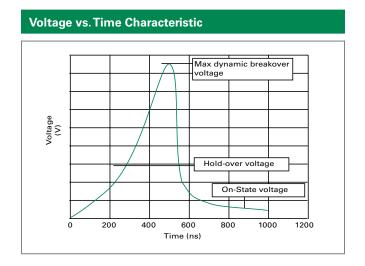


Samples SL1021A



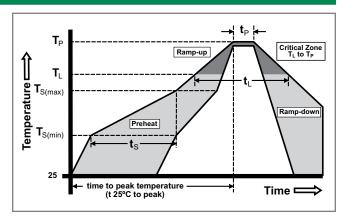
Samples SL1021B

SL102xA with Failsafe SL102xB or PMT8 500 Volt Higher Melting Point Solder SL102xB or PMT8 350 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder SL102xB or PMT8 90 Volt Higher Melting Point Solder



Soldering Parameters - Reflow Soldering (Surface Mount Devices)

Reflow Co	ndition	Pb – Free assembly		
	-Temperature Min (T _{s(min)})	150°C		
Pre Heat	-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		
D-fl	-Temperature (T _L) (Liquidus)	217°C		
Reflow	-Temperature (t _L)	60 – 150 seconds		
PeakTemp	erature (T _P)	260 ^{+0/-5} °C		
Time with Temperatu	in 5°C of actual peak ıre (t _p)	10 – 30 seconds		
Ramp-dov	vn Rate	6°C/second max		
Time 25°C	to peakTemperature (T _P)	8 minutes Max.		
Do not exc	ceed	260°C		

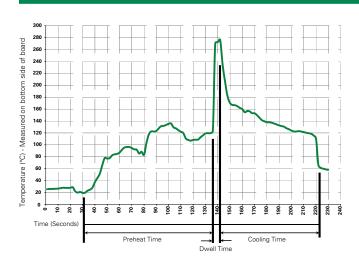


Soldering Parameters - Hand Soldering

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)	(Typical Industry Recommendation)
Temperature Minimum:	100° C
Temperature Maximum:	150° C
Preheat Time:	60-180 seconds
Solder Pot Temperature:	280° C Maximum
Solder DwellTime:	2-5 seconds

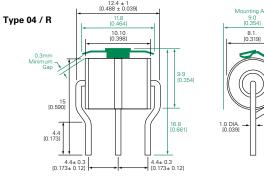
Note: Surge Arrestors with a Failsafe mechanism should be individually examined after soldering

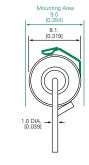


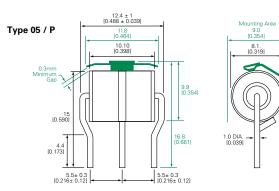
Device Dimensions

NOTE: Failsafe option dimensions shown in green.

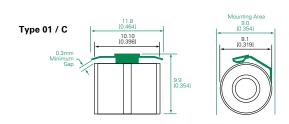
Shaped Radial Leaded Devices:



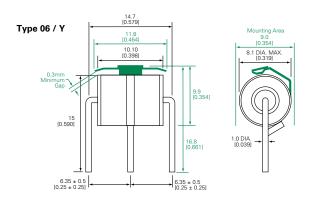




Core Devices:



Straight Radial Leaded Devices:



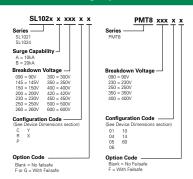
Straight "T" Leaded Devices:

Type 14 / X 10.10 [0.398] 23.8 [0.937] 22 [0.866]

Type "R" is available for SL1021B075 device only.

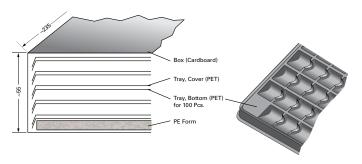


Part Numbering System and Ordering Information

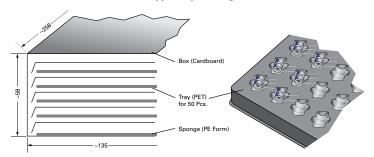


Packaging

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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