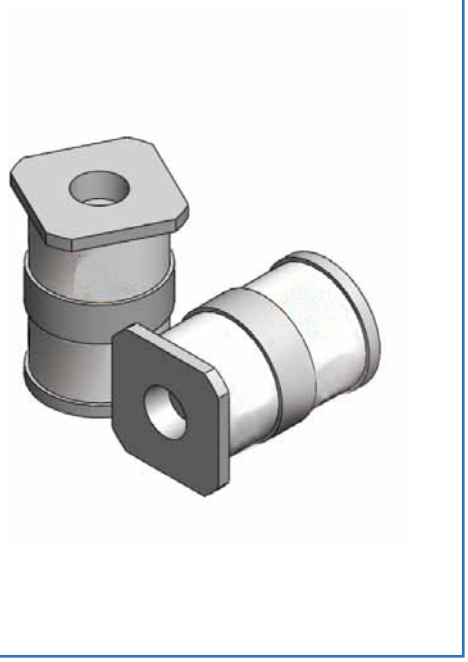
Gas Discharge Tube

3R075~3R600S(A/B)-5 Series

GDTs (Gas Discharge Tubes) are placed in front of, and in parallel with, sensitive telecom equipment such as power lines, communication lines, signal lines and data transmission lines to help protect them from damage caused by transient surge voltages that may result from lightning strikes and equipment switching operations.These devices do not influence the signal in normal operation. However, in the event of an overvoltage surge, such as a lightning strike, the GDT switches to a low impedance state and diverts the energy away from the sensitive equipment.

GDTs offer a high level of surge protection, a broad voltage range, low capacitance, and many form factors including new surface mount devices, which makes them suitable for applications such as MDF (Main Distribution Frame) modules, high data-rate telecom applications (e.g. ADSL, VDSL), and surge protection on power lines. Their low capacitance also results in less signal distortion. When used in a coordinated circuit protection solution with PTC devices, TSS thyristor surge protection devices, and MOV (Metal Oxide Varistor) devices, they can help equipment manufacturers meet

ROHS



Features

- RoHS compliant and Lead-free
- GHz working frequency
- Excellent stability on multiple pulse duty cycle
- Excellent response to fast rising transients.
- Ultra Low Insertion Loss
- Compact, small form factor suitable for efficient assembly
- Helps provide overvoltage fault protection against high energy surges
- Suitable for high-frequency applications
- 5*7.6mm devices
- Broad voltage range from 75V-600V
- Various form factors: surface mount, axial leads, no leads
- Low capacitance and insertion loss
- RoHS compliant
- Devices tested per ITU K.12 recommendations
- Non-radioactive materials

Applications

- Communication equipment
- CATV equipment
- Test equipment
- Data lines
- Power supplies
- Telecom SLIC protection
- Broadband equipment
- ADSL equipment including ADSL2+
- XDSL equipment
- Satellite and CATV equipment
- General telecom equipment

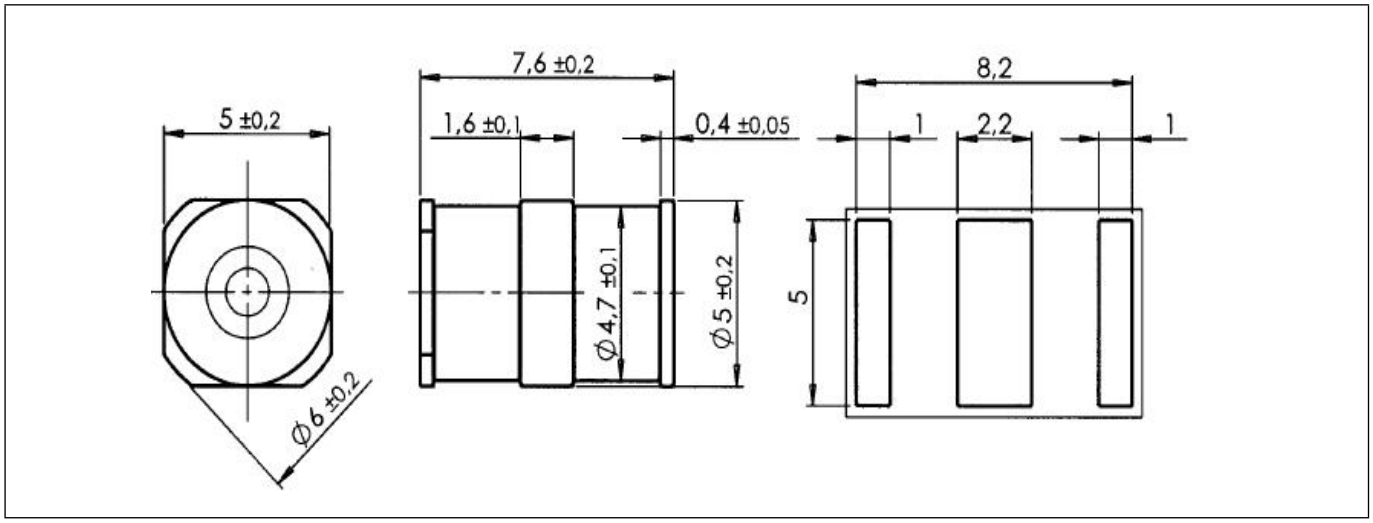
Electriacl Characteristics

Type number	DC Spark-over voltage V @100v/s	Maimum Impulse spark-over voltage V @1kv/us	Impuise life 10/1000us,100A Times	Minimum Insulation resistance Test Voltage / GΩ	Maximum Capacitance pF @1MHz	Maximum surge DischargeCurrent @8/20us,10times KA	Alternationg Dischare Curiren A @50Hz 1S
3R075SA-5	75±20%	700	300 times	DC 25V >1	2.0 pF	5KA	5A
3R090SA-5	90±20%	600		DC 50V >1			
3R150SA-5	150±20%	600		DC 100V >1			
3R230SB-5	230±20%	650				10KA	10A
3R300SB-5	300±20%	650					
3R350SB-5	350±20%	800					
3R400SB-5	400±20%	900					
3R420SB-5	420±20%	900		DC 250V >1			
3R470SB-5	470±20%	900					
3R600SB-5	600±20%	1000					

Notes:
1.Insulation resistance measure at:
DC 50V for the 3R075,3R090,and 3R150
DC 200V for other.
2. Terms in accordance with ITU-T K.12 and GB/T 9043-2008
3. At delivery AQL 0.65 level 2 DIN ISO 2859

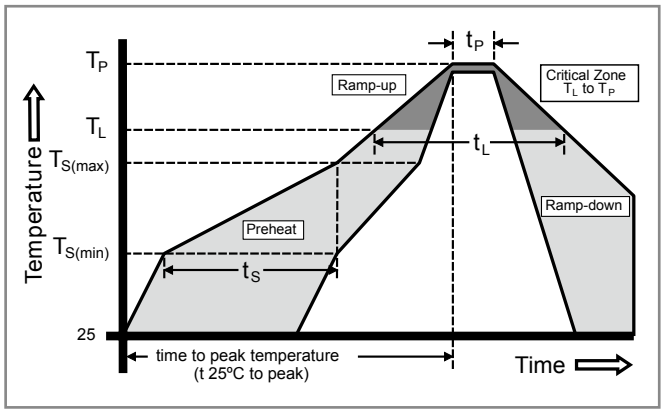
Product Dimensions

unit:mm

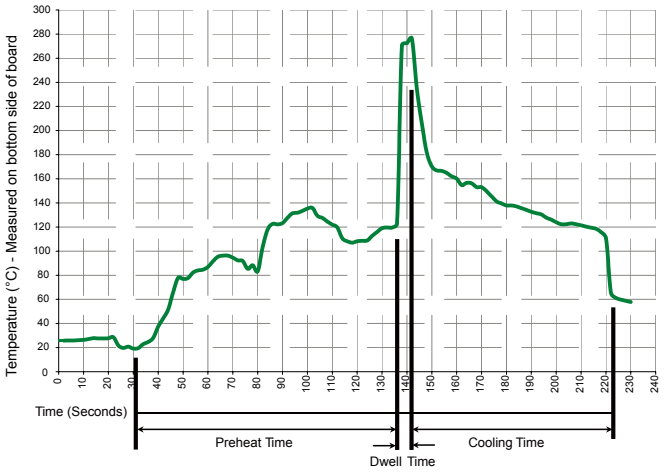


Soldering Parameters - Reflow Soldering (Surface Mount Devices)

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 - Wave Soldering (Thru-Hole Devices)



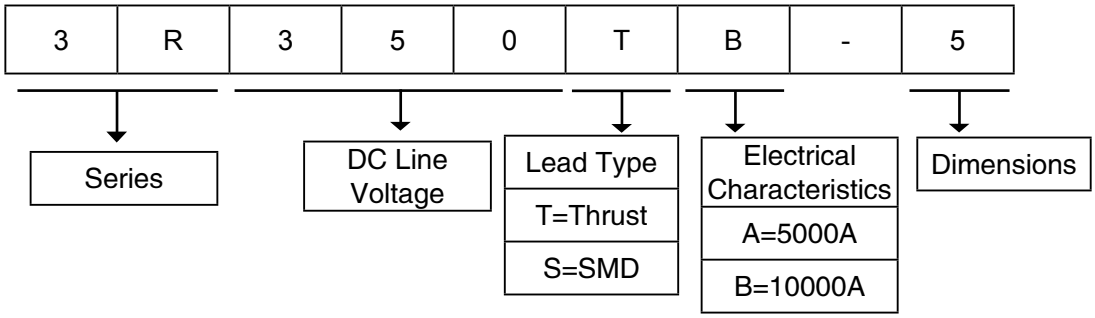
Recommended Process Parameters:

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 Dwell Time:	2-5 seconds

Soldering Parameters - Hand Soldering

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

Part Number Code



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SHANGHAI LEIDITECH ELECTRONICS CO.,LTD
Tel: +86- 021 50828806
Fax: +86- 021 50477059-8008
Email: sale1@leiditech.com
Website: http://www.leiditech.com