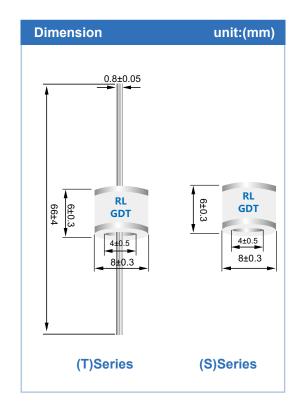


Gas Discharge Tube Diodes

2R075~2R800(T,S)B/D-8 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



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
- 5KA/10KA surge capability tested with 8/20µS pulse as defined by IEC 6100-4-5
- Ultra small devices offered in a variety of mounting lead forms
- Non-Radioactive
- Low capacitance (<1.5pF)
- Voltage Ranges 75V to 800V
- UL recognized
- Conforms to ITU-T K12,IEC6100-4-5

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	Maimum Impulse spark- over voltage	Impuise life Insulation resistance		ion	Maximum Capacitance	Maximum surge Discharge Current	Altermationg Dischare Curiren
	100v/s	1kv/us	10/1000us,100A	Test Voltage		1MHz	@8/20us,10times	50Hz 1S
	V	V	Times	DC(V)	GΩ	pF	KA	А
2R075(T,S)B-8	75±20%	600	DC 25V >1					
2R090(T,S)B-8	90±20%	600		DC 50V			10KA	10A
2R150(T,S)B-8	150±20%	700			>1			
2R230(T,S)B-8	230±20%	800		DC 100V >1				
2R300(T,S)B-8	300±20%	900						
2R350(T,S)B-8	350±20%	1000						
2R400(T,S)B-8	400±20%	1000						
2R420(T,S)B-8	420±20%	1200		DC 250V >1				
2R470(T,S)B-8	470±20%	1200						
2R600(T,S)B-8	600±20%	1300						
2R800(T,S)D-8	800±20%	1500	E00 times			1.5 pF		
2R075(T,S)D-8	75±20%	600	500 times	500 times DC 25V >1		- 1.5 pr -	20KA	20A
2R090(T,S)D-8	90±20%	600	DC 5)V			
2R150(T,S)D-8	150±20%	700						
2R230(T,S)D-8	230±20%	700						
2R300(T,S)D-8	300±20%	800		DC 100V >1				
2R350(T,S)D-8	350±20%	1000						
2R400(T,S)D-8	400±20%	1000						
2R420(T,S)D-8	420±20%	1200		DC 250V				
2R470(T,S)D-8	470±20%	1200						
2R600(T,S)D-8	600±20%	1300		>1				
2R800(T,S)D-8	800±20%	1500						

Notes:

1.Insulation resistance measure at:

DC 50V for the 2R075,2R090,and 2R150

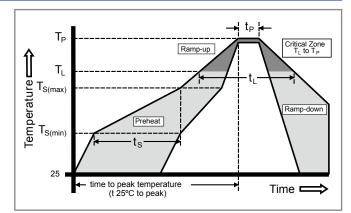
DC 200V for other.

2. Terms in accordance with ITU-T K.12 and GB/T 9043-2008

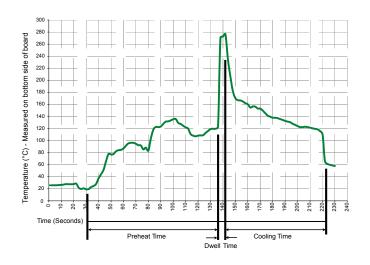
3. At delivery AQL 0.65 level 2 DIN ISO 2859

Soldering Parameters - Reflow Soldering (Surface Mount Devices)

Reflow Co	ndition	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 ra (T _L) to pea	mp up rate (Liquidus Temp k	3°C/second max	
T _{S(max)} to T	- Ramp-up Rate	5°C/second max	
Reflow	-Temperature (T _L) (Liquidus)	217°C	
	-Temperature (t L)	60 – 150 seconds	
Peak Temp	erature (T _P)	260 ^{+0/-5} °C	
Time withir Temperatu	n 5°C of actual peak re (t _p)	10 – 30 seconds	
Ramp-dow	n Rate	6°C/second max	
Time 25°C	to peak Temperature (T $_{\rm P}$)	8 minutes Max.	
Do not exc	eed	260°C	



Soldering Parameters - Wave Soldering (Thru-Hole Devices)



Soldering Parameters - Hand Soldering

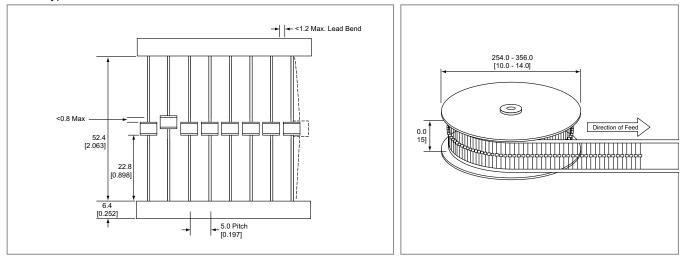
Solder Iron Temperature: 350° C +/- 5°C Heating Time: 5 seconds max.

Recommended Process Parameters:

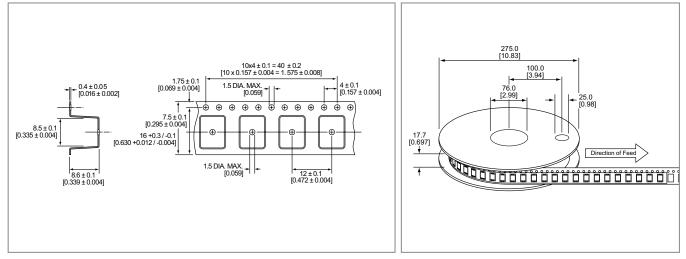
Wave Parameter	Lead-Free Recommendation		
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)		
Temperature Minimum:	100° C		
Temperature Maximum:	150° C		
Preheat Time:	60-180 seconds		
Solder Pot Temperature:	280° C Maximum		
Solder Dwell Time:	2-5 seconds		

Packaging Dimensions

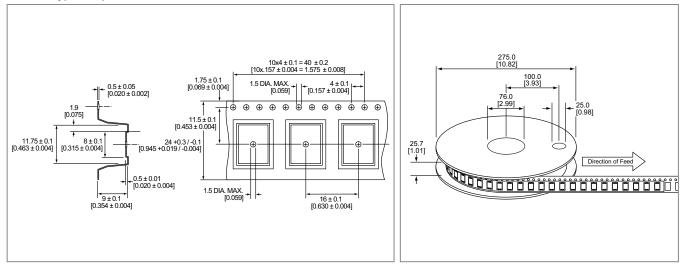
For 'T' Type Axial Lead Items



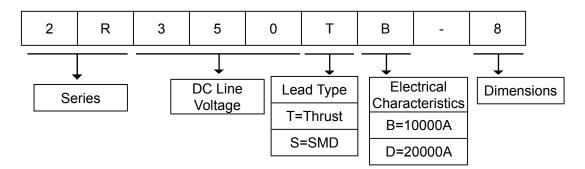
Core and 'MS' Type Items



For 'LS' Type Shaped Lead Items



Part Number Code



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