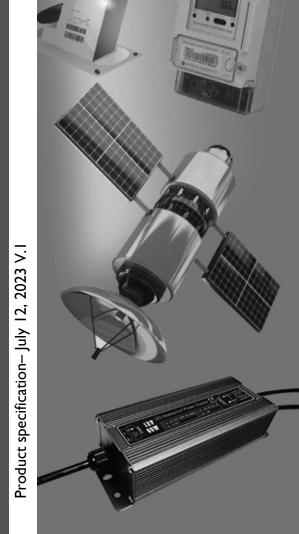


DATA SHEET

GAS DISCHARGE TUBES TELEPHONE INTERFACE 3R-8-SSS series

RoHS compliant & free





YAGEO | Circuit Protection

GAS DISCHARGE TUBS

3R-8-SSS series

6

Gas Discharge Tube (GDT) Data Sheet

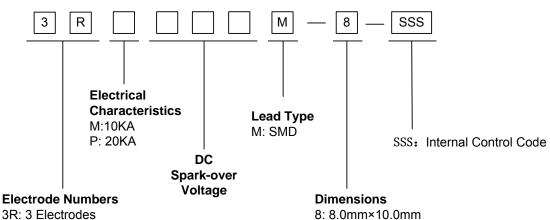
Features

- Provide ultra-fast response to surge voltage from slow-rising surge of 100V/s to rapid-rising surge of 1KV/µs
- Stable breakdown voltage
- High insulation resistance
- Low capacitance (≤2pF)
- High holdover voltage
- Large absorbing transient current capability
- Micro-Gap Design
- Size: 8.0mm*10.0mm
- Storage and operating temperature: -40°C ~ +85°C
- Meets MSL level 1, per J-STD-020
- Safety certification: UL

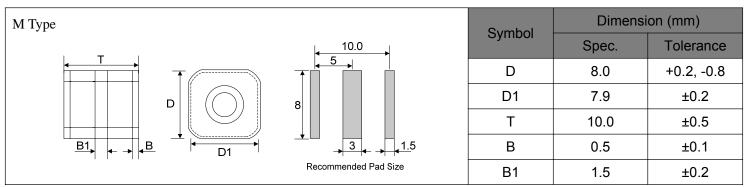
Applications

- Repeaters, Modems
- Telephone Interface, Line cards
- Data communication equipment
- Line test equipment

Part Number Code



Dimensions





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	GAS DI	SCHARGE TU	BS	3R-8-	SSS series					6
Part	Туре	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minim Insula Resist	ation	Maximum Capacitan ce	Device
Number	1	100V/s	1000V/µs	8/20µs 10times	50Hz,1sec	10/1000µs 100A	Test Voltage	(GΩ)	1MHz	Marking Code
		(V)	(V)	(KA)	(A)	(times)	DC(V)	()	(pF)	
3RM075M-8	SSS	75±20%	700	10	10	300	25	1.0	2.0	None
3RM090M-8	SSS	90±20%	700	10	10	300	50	1.0	2.0	None
3RM150M-8	SSS	150±20%	700	10	10	300	100	1.0	2.0	None
3RM200M-8	SSS	200±20%	700	10	10	300	100	1.0	2.0	None
3RM230M-8	SSS	230±20%	800	10	10	300	100	1.0	2.0	None
3RM350M-8	SSS	350±20%	900	10	10	300	100	1.0	2.0	None
3RM400M-8	SSS	400±20%	1000	10	10	300	100	1.0	2.0	None
3RM470M-8	SSS	470±20%	1100	10	10	300	250	1.0	2.0	None
3RM600M-8	SSS	600±20%	1300	10	10	300	250	1.0	2.0	None
3RP075M-8	SSS	75±20%	700	20	20	300	25	1.0	2.0	None
3RP090M-8	SSS	90±20%	700	20	20	300	50	1.0	2.0	None
3RP150M-8	SSS	150±20%	700	20	20	300	100	1.0	2.0	None
3RP200M-8	SSS	200±20%	700	20	20	300	100	1.0	2.0	None
3RP230M-8	SSS	230±20%	800	20	20	300	100	1.0	2.0	None
3RP350M-8	SSS	350±20%	900	20	20	300	100	1.0	2.0	None
3RP400M-8	SSS	400±20%	1000	20	20	300	100	1.0	2.0	None
3RP470M-8	SSS	470±20%	1100	20	20	300	250	1.0	2.0	None

Notes: 1 Specific code by request.

600±20%

1300

20

SSS

Electrical Ratings

3RP600M-8

Items	Test Condition/Description	Requirement
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=100V/s. Test is between each side electrode and center electrode.	To meet
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/µs. Test is between each side electrode and center electrode.	the specified value

20

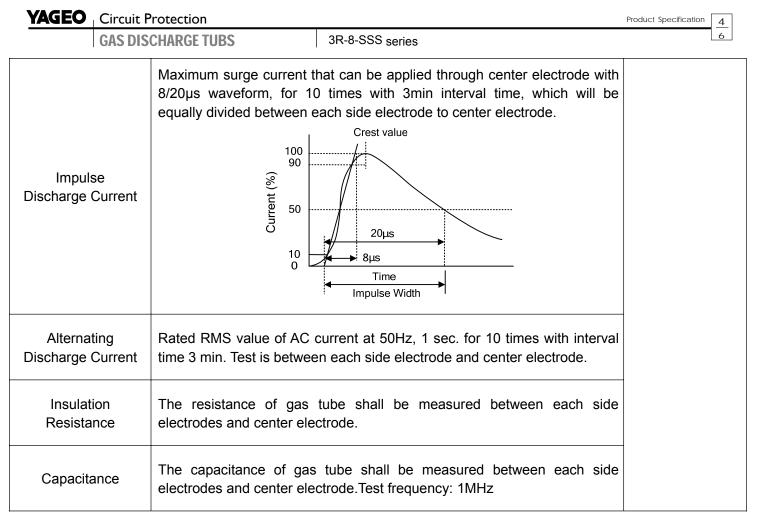
300

250

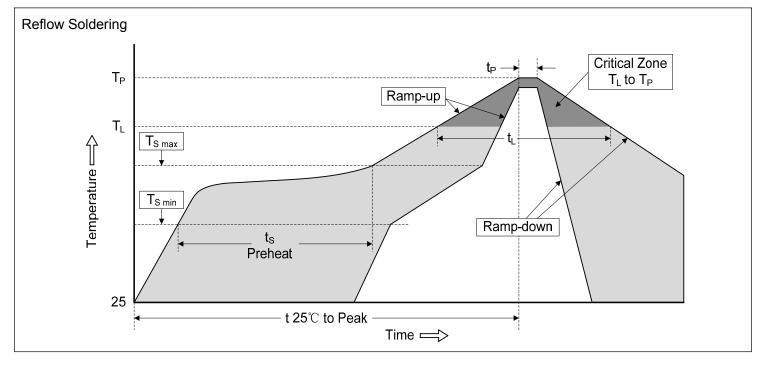
1.0

2.0

None



Recommended Soldering Conditions



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GAS DISCHARGE TUBS

3R-8-SSS series

Product Specification

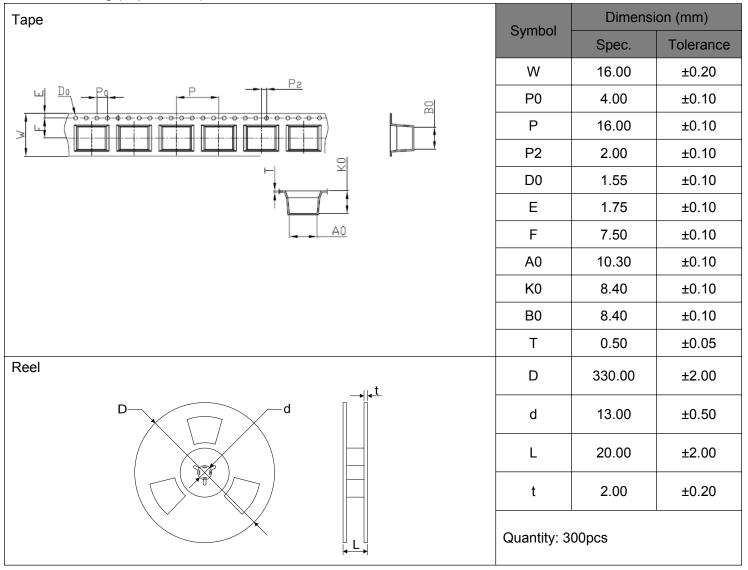
5 6

Recommended Conditions

Profile Feature	Pb-Free Assembly		
Average ramp-up rate $(T_L \text{ to } T_P)$	3℃/second max.		
Preheat			
-Temperature Min (T _{S min})	150 ℃		
-Temperature Max (T _{S max})	200 ℃		
-Time (min to max) (ts)	60-180 seconds		
T _{S max} to T _L			
-Ramp-up Rate	3℃/second max.		
Time maintained above:			
-Temperature (T _L)	217 ℃		
-Time (t _L)	60-150 seconds		
Peak Temperature (T _P)	260 ℃		
Time within 5 $^\circ\!\mathrm{C}$ of actual Peak Temperature (t_P)	20-40 seconds		
Ramp-down Rate	6℃/second max.		
Time 25°C to Peak Temperature	8 minutes max.		

Packaging

SMD Packing (Tape & Reel)



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