

# **JIEJIE MICROELECTRONICS CO., Ltd**

## J3GxxxM2LD Gas Discharge Tube

Rev.1.1

#### **FEATURE**

- ♦ Eliminates small size design EIA 5.5×6.0mm.
- → Current handling capability 3,000A@8/20µs.
- ♦ Low capacitance and insertion loss.
- → Fast response and long service life.
- ♦ Reliable to protect electrostatic surge.
- ♦ Moisture sensitivity level: Level 1.



Exterior



Schematic symbol

### **APPLICATION INFORMATION**

- ♦ Repeaters, modems.
- ♦ Telephone interface, line cards.
- ♦ Data communication equipment.
- Line test equipment.

#### **ELECTRICAL CHARACTERISTICS**

Part number	DC breakdown voltage 100V/s(V)	Tolerance of V <sub>S</sub>	Impulse spark-over voltage 1KV/µs(V)	Impulse discharge current 8/20µs(A)	Insulation resistance		Co
					GΩ	DC(V)	(1MHz)
J3G302M2LD	3000	2400-3600	≤4500	3000	≥1	250	≤1.5pF
J3G362M2LD	3600	2800-4400	≤5500	3000	≥1	250	≤1.5pF

- 1. The parameters of all tested by ITU-T K12.
- 2. Total Impulse discharge current 3,000A@ 8/20µs by IEC 61000-4-5, 1 shots.
- 3. The capacitance is tested by 1MHz@DC=0.5V.
- 4. The V-T waveform of DCBV and IPBV mus lie between the shades.



## **PART NUMBERING SYSTEM**

<u>J3G</u> <u>302</u> <u>M</u> <u>2L</u> <u>D</u> (1) (2) (3) (4) (5)

(1)JieJie 3KA gas discharge tube

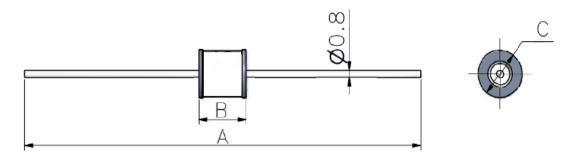
(2)DC breakdown voltage,  $302=30\times10^2=3000V$ 

(3)Tolerance is DC breakdown voltage, M=+-20%, N=+-30%

(4)2-electrod DIP

(5) Dimension in  $5.5 \times 6.0$  (mm)

## **PRODUCT DIMENSIONS (unit: mm)**

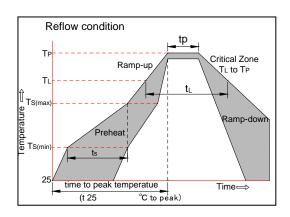


REF	mm	inch
A	62±2	2.441±0.079
В	6±0.2	0.236±0.008
С	Φ5.5±0.2	Φ0.217±0.008

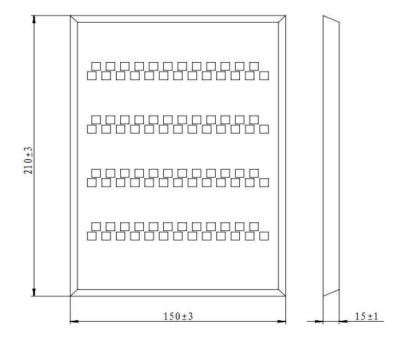


### **REFLOW PROFILE**

Reflow Condition		Pb-Free assembly	
		(see figure at right)	
Pre Heat	-Temperature Min (T <sub>s(min)</sub> )	+150℃	
	-Temperature Max(T <sub>s(max)</sub> )	+200℃	
	-Time (Min to Max) (ts)	60-180 secs.	
Average ramp up rate (Liquidus Temp (T <sub>L</sub> )to peak)		3°C/sec. Max	
T <sub>s(max)</sub> to T <sub>L</sub> - Ramp-up Rate		3°C/sec. Max	
Reflow	-Temperature(T <sub>L</sub> )(Liquidus)	<b>+217</b> ℃	
	-Temperature(t <sub>L</sub> )	60-150 secs.	
Peak Temp (T <sub>p</sub> )		+260(+0/-5)°C	
Time within 5°Cof actual Peak Temp (tp)		~10 secs.	
Ramp-down Rate		6°C/sec. Max	
Time 25°C to Peak Temp (T <sub>P</sub> )		8 min. Max	
Do not exceed		<b>+260</b> ℃	



## **PACKAGE BOX INFORMATION**



100pcs/box



#### **PACKAGING**

Part No.	BOX Quantity (pcs)	Per Carton (pcs)	
J3GxxxM2LD	100	10,000	

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