

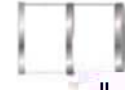


## J10GxxxM3SF Gas Discharge Tube

Rev.1.1

### FEATURE

- ✧ Eliminates small size design EIA 7.6× 5.0× 5.0mm.
- ✧ Current handling capability 10,000A@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)	Arc Voltage At 1A(V)	Impulse Discharge Current@8 /20μs(KA)	Insulation resistance		C <sub>o</sub> (1MHz)
						G	DC(V)	
J10G091M3SF	90	±20%	750	10	10000	1	50	1pF
J10G231M3SF	230	±20%	800	10	10000	1	50	1pF
J10G421M3SF	420	±20%	950	10	10000	1	100	1pF

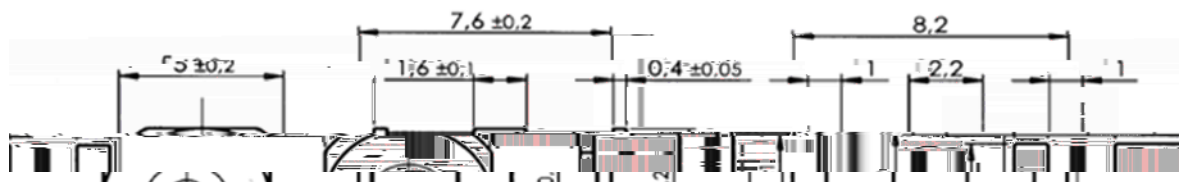
1. The parameters of all tested by ITU-T K12.
2. Total Impulse discharge current 10,000A@ 8/20μs by IEC 61000-4-5, 10 shots.
3. The capacitance is tested by 1MHz@DC=0.5V.
4. The V-T waveform of DCBV and IPBV mus lie between the shades.

## PART NUMBERING SYSTEM

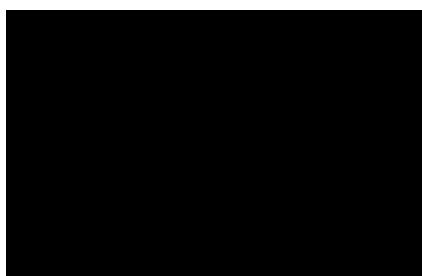
J10G 091 M 3S E  
 (1) (2) (3) (4) (5)

- (1) JieJie 10KA gas discharge tube
- (2) DC breakdown voltage, e.g., 91=9× 10<sup>1</sup>=90V
- (3) Tolerance is DC breakdown voltage, M=+-20%, N=+-30%
- (4) 3-electrod SMD
- (5) Dimension in 7.6× 5.0× 5.0 (mm)

## PRODUCT DIMENSIONS (unit: mm)



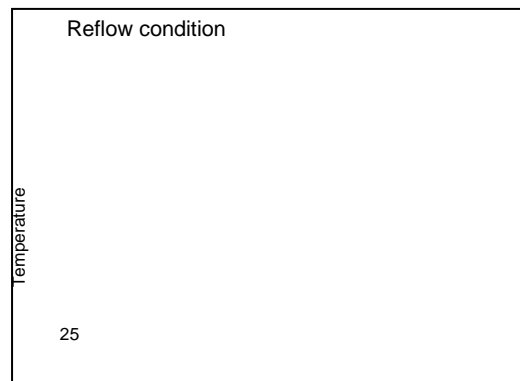
## RECOMMENDED SOLDERING PAD



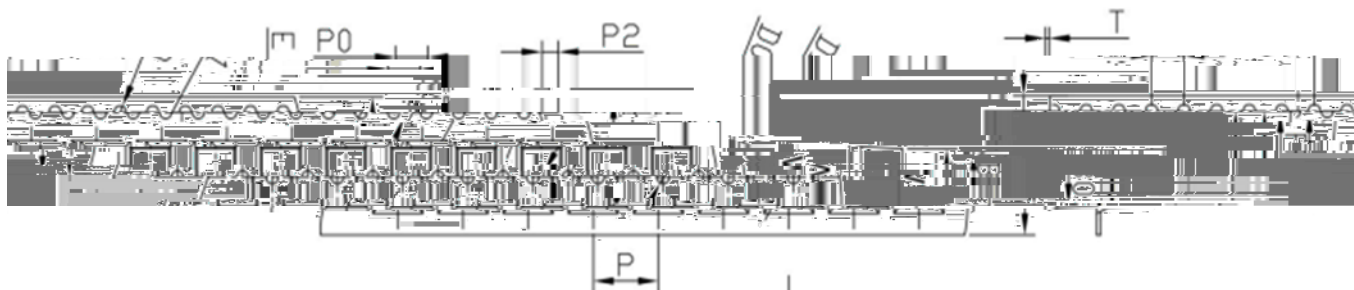
REF	mm	inch
A	9.6	0.378
B	1.5	0.059
C	1.5	0.059
0.197	D	5.0

REFLOW PROFILE

Reflow Condition		Pb-Free assembly (see figure at right)
Pre Heat	-Temperature Min ( $T_{s(min)}$ )	+150
	-Temperature Max( $T_{s(max)}$ )	+200
	-Time (Min to Max) (ts)	60-180 secs.
Average ramp up rate (Liquidus Temp ( $T_L$ )to peak)		3 /sec. Max
$T_{s(max)}$ to $T_L$ - Ramp-up Rate		3 /sec. Max
Reflow	-Temperature( $T_L$ )(Liquidus)	+217
	-Temperature( $t_L$ )	60-150 secs.
Peak Temp ( $T_p$ )		+260(+0/-5)
Time within 5 of actual Peak Temp ( $t_p$ )		~10 secs.
Ramp-down Rate		6 /sec. Max
Time 25 to Peak Temp ( $T_p$ )		8 min. Max
Do not exceed		+260



PACKAGE REEL INFORMATION



	W	A0	B0	K0	E	F	P	P0	P2	D0	D1	T
DATA	16.00	5.35	7.95	5.35	1.75	7.5	8.00	4.00	2.00	1.50	1.50	0.40

**J10GxxxM3SF**

 **JieJie Microelectronics Co., Ltd**

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PACKAGING

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TEL