LY42R090KS Data Sheet

Features

- Stable breakdown voltage.
- High insulation resistance.
- Low capacitance (≤1pF)
- Large absorbing transient current capability.
- Size: 4.2mm*4.0mm
- Storage and operating temperature: -40℃ ~ +85℃
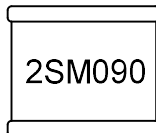- Meets MSL level 1, per J-STD-020

Applications

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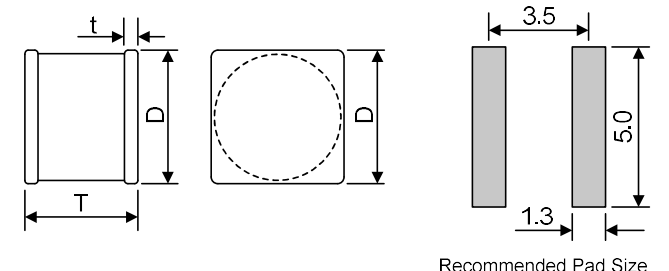- Line test equipment

Part Number Code

LY42R 090 K S

LY42R：Size Code, LY4 series, Two electrodes
090：DC Breakdown Voltage=90V@100V/s
K：Impulse Discharge Current=3KA@8/20μs
S：SMD Type

Marking

2SM090

Dimensions

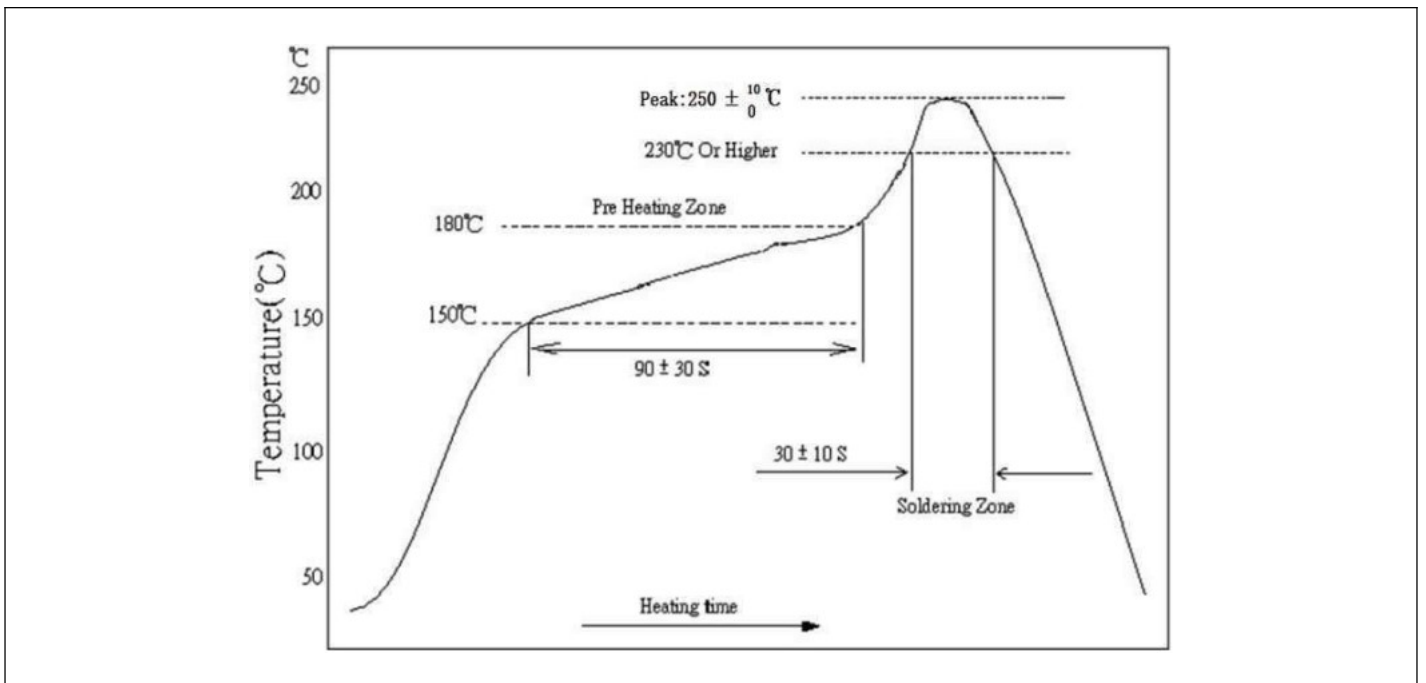| Item	Dimensions(mm)
D	4.2±0.5
T	4.0±0.4
t	0.4±0.2

Recommended Pad Size

Electrical Characteristics

Model Name	DC Breakdown Voltage	Maximum Impulse Breakdown Voltage	Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minimum Insulation Resistance	Maximum Capacitance
	100V/s	1000V/µs	8/20µs, 10 times	50Hz, 1s	10/1000µs, 100A	50VDC	1MHz
LY42R090KS	90V±20%	800V	3KA	3A	300 times	1GΩ	0.8pF

Electrical Ratings

Items	Test Method	Standard
DC Spark-over Voltage	measured with voltage ramp dv/dt=100V/s.	
Maximum Impulse Spark-over Voltage	measured with voltage ramp dv/dt=1000V/μs.	
Impulse Discharge Current	applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time,	To meet the specified value
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. for 10 times with interval time 3 min.	
Insulation Resistance	measured between two electrodes.	
Capacitance	measured between two electrodes. Test frequency: 1MHz	

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