JJV20D Disc Varistors

Rev.3.2

FEATURES

- Wide operating voltages ranging from 11 V_{RMS} to 1000 V_{RMS}.
- Fast response time of less than 25ns, instantly clamping the transient over voltage.
- High surge current handling capability.
- High energy absorption capability.
- Low clamping voltages, providing better surge protection.
- Low capacitance values, providing digital switching circuitry protection.
- High insulation resistance, preventing electric arching to the adjacent devices or circuits.

APPLICATIONS

- Transistor, diode, IC, thyristor or triac semiconductor protection
- Surge protection in consumer electronics
- Surge protection in industrial electronics
- Surge protection in electronic home appliances, gas and petroleum appliances
- Relay and electromagnetic valve surge absorption

APPLICABLE STANDARDS

- UL1449
- VDE (IEC61051-1, -2, -2-2, IEC60950-1Annex Q)

TYPE CODE DESIGNATION

JJV 20 D □□□ K □ □

JJV: JieJie Semiconductor Varistors

Size(mm): 20mm

Type: D: Disk; S: Square

Lead length:
Omission: Standard lead length

GENERAL TECHNICAL DATA

JJV20D Series

RELIABILITY TESTS - Mechanical ratings

Parameter	Condition			Requirements
Terminal Pull Strength	After gradually applying the load specified below and keeping the unit fixed for ten seconds, the terminal shall be visually examined for any damage.	Diameter	Loading	No visible damage
		0.6mm	1.0Kg	
		0.8mm	1.0Kg	
		1.0mm	[illegible]Kg	
Terminal Bending Strength	The unit shall be secured with its terminal kept vertical and the weight specified below be applied in the axial direction. The terminal shall gradually be bent by 90° in one direction, then 90° in the opposite direction, and again back to the original position. The damage of the terminal shall be visually examined.	Diameter	Loading	No visible damage
		0.6mm	0.5Kg	
		0.8mm	0.5Kg	
		1.0mm	1.0Kg	
Vibration	The specimen shall be vibrated by its lead wires with a total amplitude of 1.5mm and a varying frequency of 10~55~1~quen Ã ~ o | A u .. ~T			

RELIABILITY TESTS - Environmental ratings

Parameter	Condition

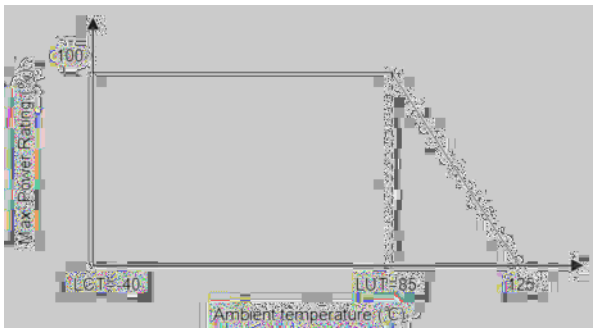
- Quantity of bulk packing method (pcs)

APPROVAL STANDARD AND FILE NUMBER

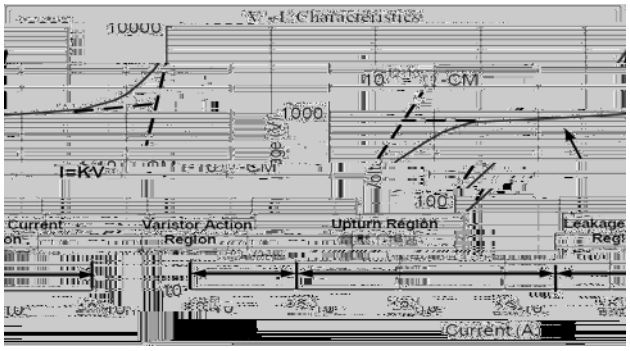
Certified Model No.					CUL
JJV20D180L	YES				YES
JJV20D220K	YES				YES
JJV20D270K	YES		YES		YES
JJV20D330K	YES		YES		YES
JJV20D390K	YES		YES		YES
JJV20D470K	YES		YES		YES
JJV20D560K	YES		YES		YES
JJV20D680K	YES		YES		YES
JJV20D820K	YES	3ka/6kv	YES		YES
JJV20D101K	YES	3ka/6kv	YES		YES
JJV20D121K	YES	3ka/6kv	YES		YES
JJV20D151K	YES	3ka/6kv	YES		YES
JJV20D181K	YES	3ka/6kv	YES	3ka/6kv	YES
JJV20D201K	YES	3ka/6kv	YES	3ka/6kv	YES
JJV20D221K	YES	3ka/6kv	YES	3ka/6kv	YES
JJV20D241K	YES	3ka/6kv	YES	3ka/6kv	YES

VARISTOR CHARACTERISTICS CURVE

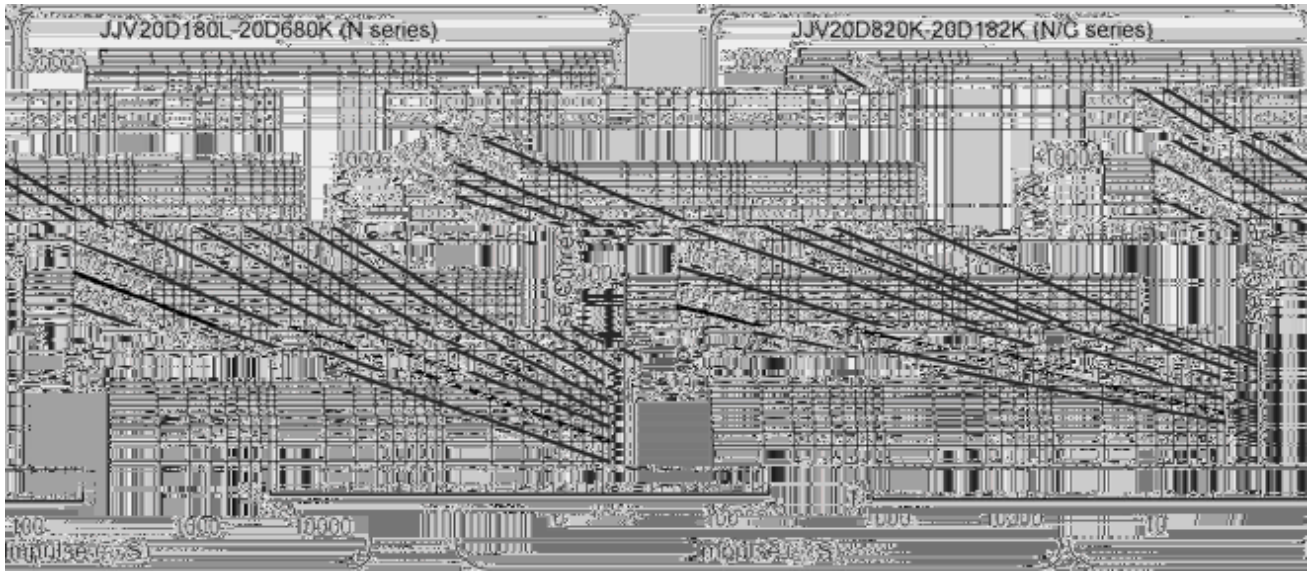
Power derating curve



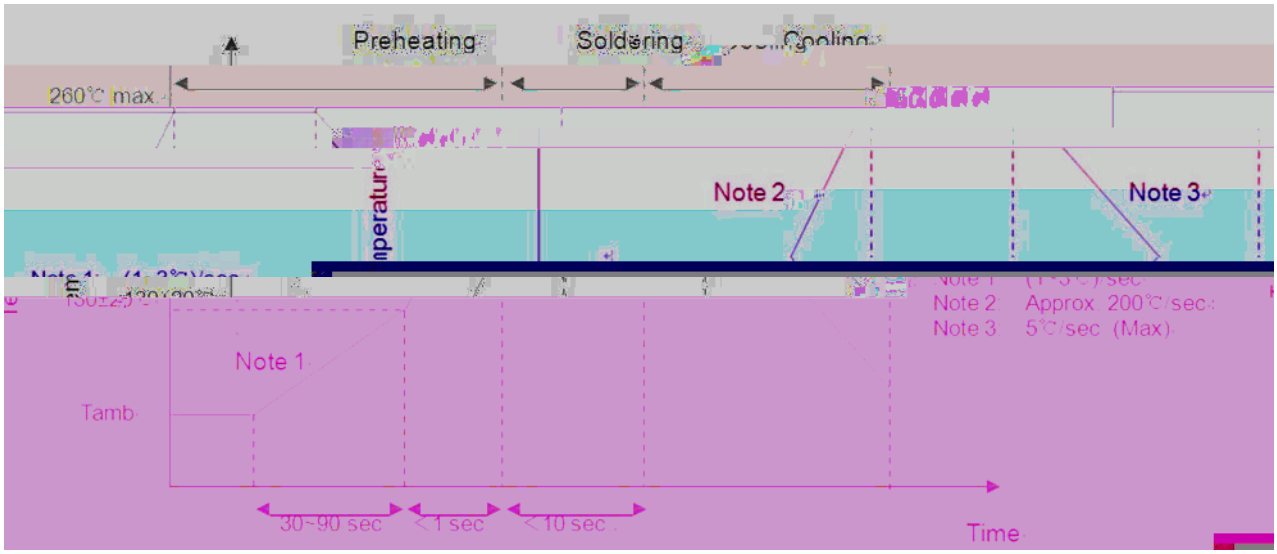
Varistor V-I characteristics curve



Surge life time ratings N (standard) / K (low capacitance) series



Soldering recommendation - wave soldering profile



9 , FXUYHV

--9 ' / ' . 1 - 6 VHULHV

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JJV20D471K-20D182K (N/J/S series)