

Metal Oxide Varistor (MOV) Data Sheet

Features

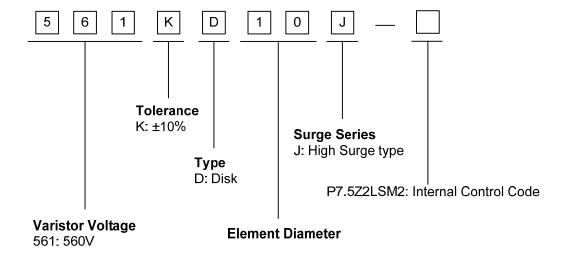
- Fast responding to transient over-voltage
- ■Large absorbing transient energy capability
- Low clamping ratio and no follow-on current
- Meets MSL level 1, per J-STD-020
- ■Operating Temperature: -40°C ~ +85°C
- ■Storage Temperature: -40°C ~ +125°C
- Safety certification: UL: E327997

CSA: 246579 VDE: 40027827

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

Part Number Code



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20.0

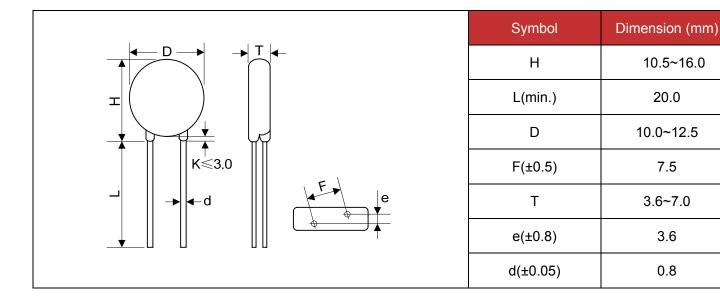
7.5

3.6

8.0



Dimensions

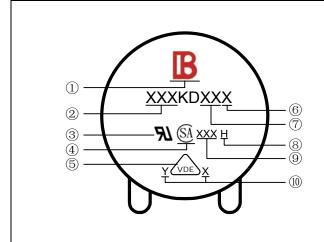


Electrical Characteristics

Model Number: 561KD10J				Part Number: 561KD10J-P7.5Z2LSM2					
Allov	mum vable tage	Varistor Voltage	Clar	imum nping tage	Withstanding Surge current	Maximum Energy (10/1000µs)	Rated Power	Leakage Current	Typical Capacitance (Reference)
V _{AC} (V)	V _{DC} (V)	V _{1mA} (V)	I _P (A)	V _C (V)	I (A)	(J)	(W)	@83% of V _{1mA} (μΑ)	@1KHz (pf)
350	460	560(504~616)	25	925	3500	92.0	0.4	≤25	180

Note: charged AC220V, 1.2/50&8/20µS combination wave form 6KV/3KA,sub 0°、90°、270°phases, each phase ±5 times, a total of 30 times.

Marking Code



- ① Brightking Logo
- 2 Varistor Voltage
- ③ UL Accreditation Logo
- **4** CSA Accreditation Logo
- **5** VDE Accreditation Logo
- ⑥ "J" is High Surge Code, no "J" is Standard Surge
- 7 Disk Size
- ® "H" is Halogen Free Code, no "H" is Halogen
- 9 Date Code
- Product Line Code ("Y" may be A thru Z or blank)

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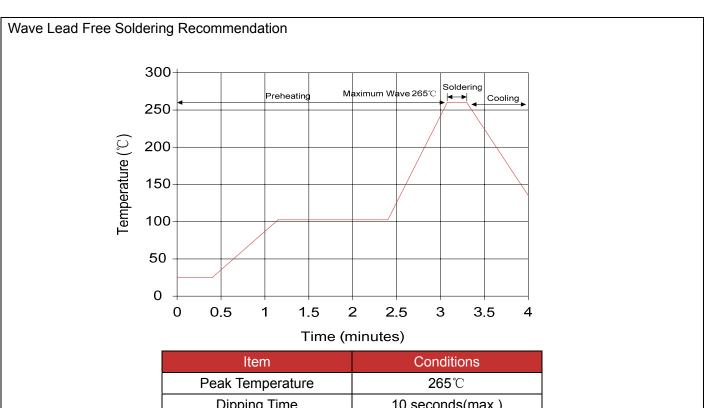
Electrical Ratings

Items	1	est Condition/Descrip	otion	Requirement		
Varistor Voltage	e specified measuring					
Maximum Allowable Voltage	The recommended m					
Maximum Clamping Voltage	The maximum voltag standard impulse cur Applied waveform: 8, 100 90	To meet the Specified value				
Rated Wattage	Rated Wattage The maximum average power that can be applied within the specified ambient temperature.					
Energy	The maximum energ					
Withstanding Surge Current	The maximum currer with the standard imp					
Varistor Voltage Temp. Coefficient	V _{1mA@} V V _{1mA@}	- ≤0.05%/℃				
	The change of Vb sh which is applied 10,0 seconds at room tem	ΔVb				
Surge Life	10Ф series	180K to 680K 820K to 182K	50A (8/20μs) 100A (8/20μs)	$\frac{\Delta Vb}{Vb} \le \pm 10\%$		

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Soldering Recommendation



Dipping Time 10 seconds(max.) Soldering 1 time

Recommendation Reworking Conditions with Soldering Iron

Item	Conditions
Temperature of Soldering Iron-tip	360°C(max.)
Soldering Time	3 seconds(max.)
Distance from Varistor	2mm (min.)

Quantity

Packaging Dimensions (Unit: mm)	Quantity
Bulk 65 Max. 245 Max.	500pcs/bag 2bags/box

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