

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 $^{\circ}$ C

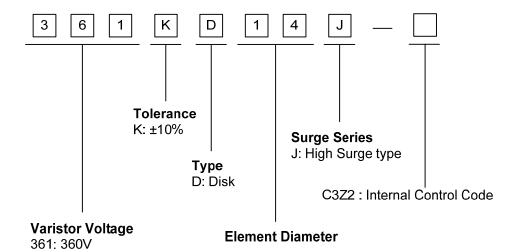
■ Safety certification: UL: E327997

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

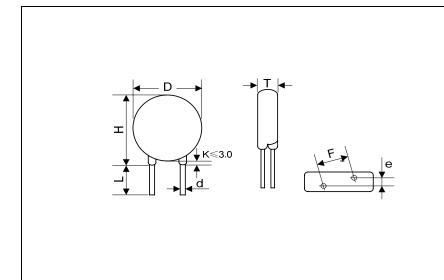
Part Number Code



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Dimensions

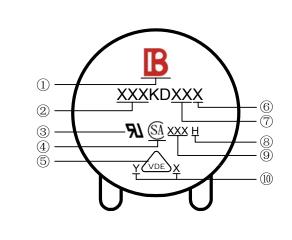


Symbol	Dimension (mm)
н	14.5~20.0
L(±0.5)	3.0
D	14.0~16.5
F(±0.8)	7.5
Т	2.9~5.2
e(±0.8)	2.7
d(±0.05)	0.8

Electrical Characteristics

Model Number:361KD14J			Part Number: 361KD14J-C3Z2						
Allov	mum vable tage	Varistor Voltage	Clan	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)
230	300	360(324~396)	50	595	6000	130	0.6	≤25	560

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
- Date Code
- ① Product Line Code ("Y" may be A thru Z or blank)

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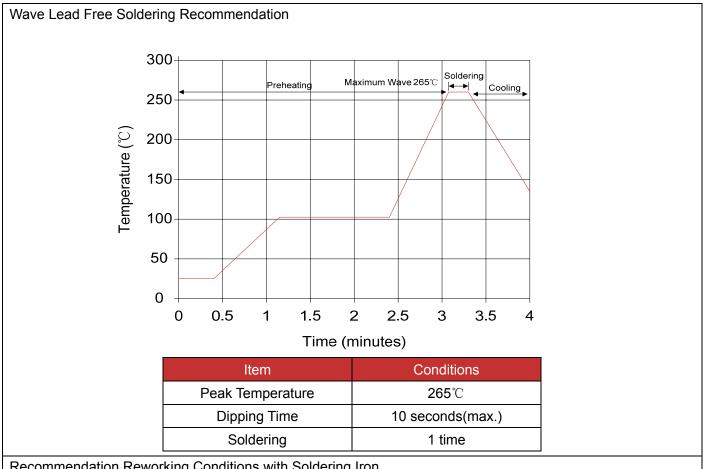
Electrical Ratings

Items	1	Test Condition/Descrip	otion	Requirement
Varistor Voltage	The voltage between current 1mA.DC app			
Maximum Allowable Voltage	The recommended m			
Maximum Clamping Voltage	The maximum voltag standard impulse cur Applied waveform: 8, 100 90 (%) 100 0	To meet the Specified value		
Rated Wattage	The maximum aver specified ambient ter			
Energy	The maximum energ			
Withstanding Surge Current	The maximum currer with the standard imp			
Varistor Voltage Temp. Coefficient	$\frac{\left \frac{V_{1mA@85^{\circ}}-V_{1mA@25^{\circ}}}{V_{1mA@25^{\circ}}} \times \frac{1}{60} \times 100\%(\%\%)\right }{\left \frac{V_{1mA@40^{\circ}}-V_{1mA@25^{\circ}}}{V_{1mA@25^{\circ}}} \times \frac{1}{65} \times 100\%(\%\%\%)\right }$			- ≤0.05%/°C
The change of Vb shall be measured after the impulse listed below which is applied 10,000 times continuously with the interval of ten seconds at room temperature.				
Surge Life	14Ф series	180K to 680K 820K to 182K	75A (8/20µs) 150A (8/20µs)	$\frac{\Delta Vb}{Vb} \le \pm 10\%$
		<u> </u>		

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Soldering Recommendation



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.	300pcs/bag 2bags/box

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