

Metal Oxide Varistors (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

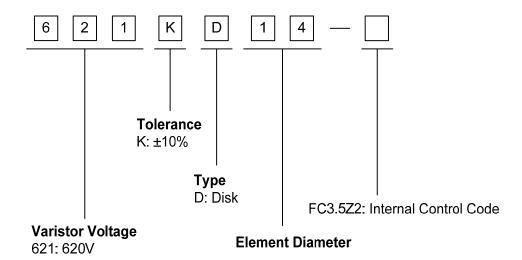
■ Safety certification: UL: E327997

CSA: 246579 VDE: 40027827

Applications

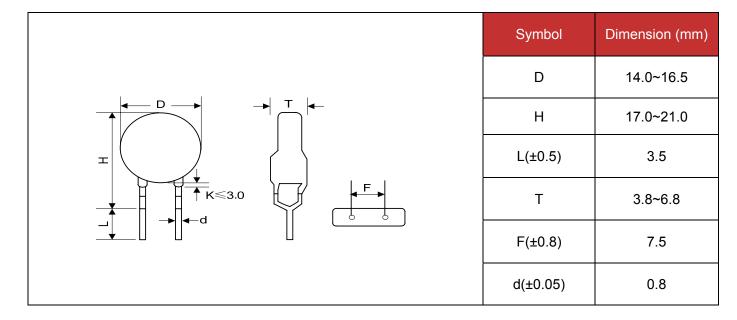
- Transistor, diode, IC, thyristor or triac semiconductor protection
- Surge protection in consumer electronics
- Surge protection in industrial electronics
- Surge protection in electronic home appliances, gas and petroleum appliances
- Relay and electromagnetic valve surge absorption

Part Number Code





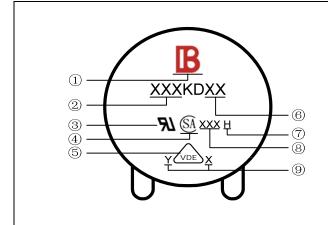
Dimensions



Electrical Characteristics

Model Number: 621KD14				Part Number: 621KD14-FC3.5Z2					
Allov	mum vable tage	Varistor Voltage		mum nping age	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)	l (A)	(J)	(W)	@83% of V _{1mA} (μA)	@1KHz (pf)
385	505	620(558~682)	50	1025	4500	125.0	0.6	≤25	320

Marking Code



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

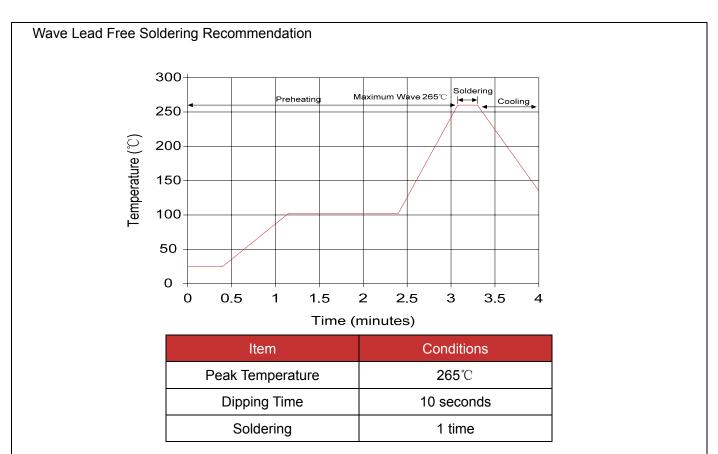


Electrical Ratings

Items	7	est Condition/Descrip	otion	Requirement	
Varistor Voltage	The voltage between current 1mA.DC appl				
Maximum Allowable Voltage	The recommended m				
Maximum Clamping Voltage	The maximum voltag standard impulse cur Applied waveform: 8/ 100 90 (%) 100 90 10	To meet the Specified value			
Rated Wattage	The maximum aver specified ambient ter				
Energy	Energy The maximum energy within the varistor voltage change of ±10% when one impulse of 10/1000µs or 2ms is applied.				
Withstanding Surge Current					
Varistor Voltage Temp. Coefficient	- ≤0.05%/℃				
	The change of Vb showhich is applied 10,0 seconds at room tem				
Surge Life	14Ф series	180K to 680K	75A (8/20µs)	$\frac{\Delta Vb}{Vb} \le \pm 10\%$	
		820K to 182K	150A (8/20µs)		
L					



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