

FEATURES

- Wide operating Voltages ranging from 5Vrms to 1000V(6Vdc to 1465Vdc).
- 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.

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.

GENERAL CHARACTERISTICS DEFINITION

- Operating Temperature: $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$.
- Storage Temperature: $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$.
- Working Surface Temperature: $+115^{\circ}\text{C}$.
- Insulation Resistance: $>100\text{M}\Omega$.

ORDERING INFORMATION

10 D 820 K
① ② ③ ④

- ① Size: 10: $\phi 10.0\text{mm}$;
- ② Type: D: Disk, S: Square;
- ③ Varistor voltage: $820\text{---}82\times 10^0=80\text{V}$;
- ④ Tolerance: $\text{K}=\pm 10\%$, $\text{L}=\pm 15\%$, $\text{M}=\pm 20\%$;

PACKAGING

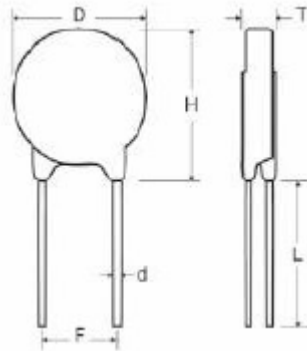
Model	Component Package	Quantity
10D820K	10.0mm	500

ELECTRICAL CHARACTERISTIC

Part Number	Maximum allowable voltage		Varistor voltage	Clamping voltage (Max.)			Maximum peak current (8/20 μ s)		Maximum Energy current (10/1000 μ s)		Rated power (W)	Typical capacitance (Reference) @1KHz(pf)
	AC(V)	DC (V)		VC (V)	IP (A)	Standard (A)	High surge (A)	Standard (J)	High surge (J)			
10D820K	50	65	V1.0mA (V) 82(74-90)	135	25	1250	2500	16.8	17	0.40	1200	

DIMENSIONS

(unit: mm)



Part No.	D Max.	H Max.	L Min.	F \pm 0.8	d \pm 0.05	T Max.
10D820K	12.	16.5	25-30	7.5	0.8	4.7

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