

## FEATURES

- Wide operating Voltages(V1mA): form 18V to 820V.
- Fast response to transient over-voltage and limited current.
- Low Clamping ratio and no follow-on current.
- Capable of absorbing high transient energies.

## APPLICATIONS

- Transistor, Diode, IC, Thyristor or Triac semiconductor protection.
- Consumer electronics.
- Industrial electronics.
- 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

07   D   181   K  
①   ②   ③   ④

- ① Size: 07:  $\phi 7.0\text{mm}$ ;
- ② Type: D: Disk, S: Square;
- ③ Varistor voltage: 181— $18\times 10^1=180\text{V}$ ;
- ④ Tolerance: K= $\pm 10\%$ , L= $\pm 15\%$ , M= $\pm 20\%$ ;

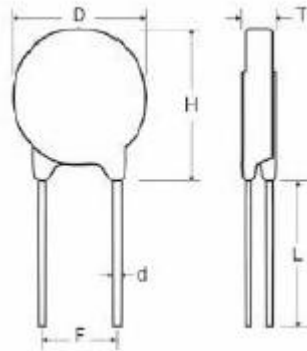
## PACKAGING

Model	Component Package	Quantity
07D□□□K	7.0mm	1000

**ELECTRICAL CHARACTERISTIC**

Part Number		Maximum allowable voltage		Varistor voltage	Clamping voltage		Maximum peak current		Maximum peak current		Rated power	Typical capacitance (Reference)
Φ7.0mm					(Max.)		(8/20μs)		(8/20μs)			
Standard	High surge	AC.rms (V)	DC (V)	V1mA (V)	VC (V)	IP (A)	Standard (A)	High surge (A)	Standard (J)	High surge (J)	(W)	@1KHz(pf)
07D181K	J	115	150	180(162-198)	300	10	1200	1750	13	16	0.25	280

**DIMENSION**

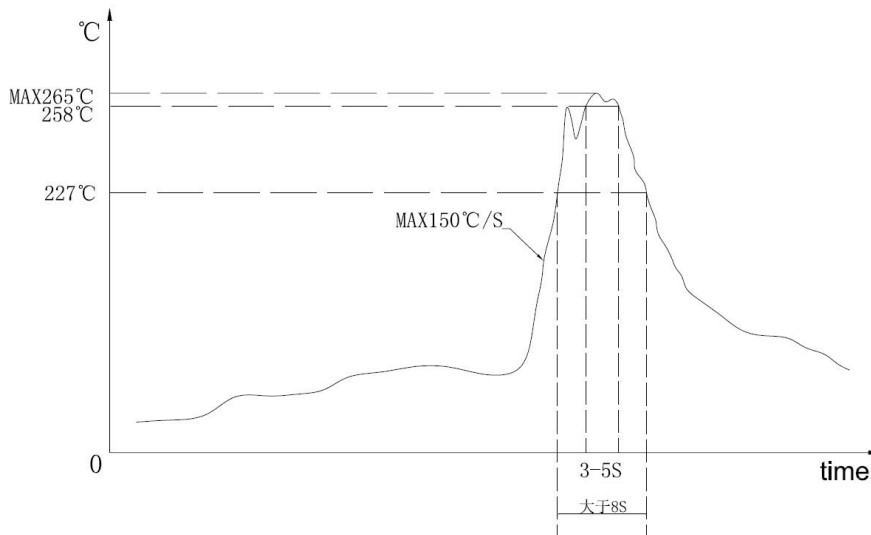


(unit: mm)

--Straight Type

Part No.	D Max.	H Max.	L Min.	F±0.8	d±0.05	T Max.
07D181K	9.0	11.0	20.0	5.0	0.6	4.1

**WAVE-SOLDERING**



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