

## HP-L Series Datasheet

### Features

- Axial terminals
- High current & Excellent clamping capability.
- Glass passivated junction chip.
- Bi-directional or Uni-directional.
- Low slope resistance.
- Hazardous Substances Free Compliant.
- RoHS compliant.
- High Temperature wave soldering: 265°C/10 seconds at terminals.
- Epoxy Coating.

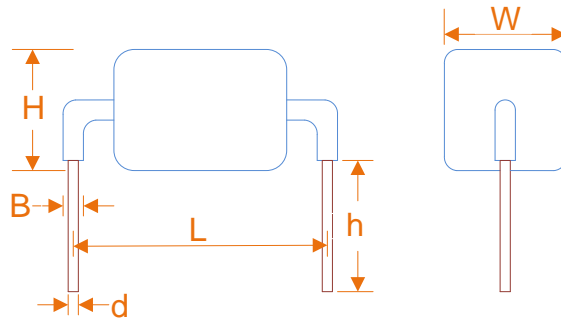


### Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Rating	Symbol	Value		Units
8/20µs Surge Current	I <sub>PP</sub>	HP3KA-L	3	KA
		HP6KA-L	6	
Operating Junction Temperature Range.	T <sub>J</sub>	-40 to +150		°C
Storage Temperature Range.	T <sub>STG</sub>	-40 to +125		°C

### Dimensions



HP3KA-L & HP6KA-L Series		
Symbol	Inches	Millimeters
L	0.951±0.039	24.15±1.0
B	0.053min	1.35min
h	0.236±0.047	6.0±1.20
H	0.512max	13.0max
d	0.050±0.004	1.28±0.10
W	0.512max	13.0max

## Electrical Characteristics

Part Number	Reverse Stand-Off Voltage		Breakdown Voltage		Test Current	Current Rating	Maximum Energy	Maximum Clamping Voltage	Reverse Leakage
	V <sub>AC</sub> (V)	V <sub>DC</sub> (V)	V <sub>BL</sub> (V)	V <sub>BH</sub> (V)					
HP3KA-30CL	21	30	33.0	37.0	1	3KA	1200	100	5
HF6KA-66CL	45	66	70.0	77.5	1	6KA	5200	120	5

- Notes: 1. TA=25°C unless otherwise specified  
2. Applying 8/20µs wave form pulse as defined in IEC61000-4-5

## Ratings and Characteristic Curves (Ta=25°C unless otherwise noted)

Figure 1. Power Derating Curve

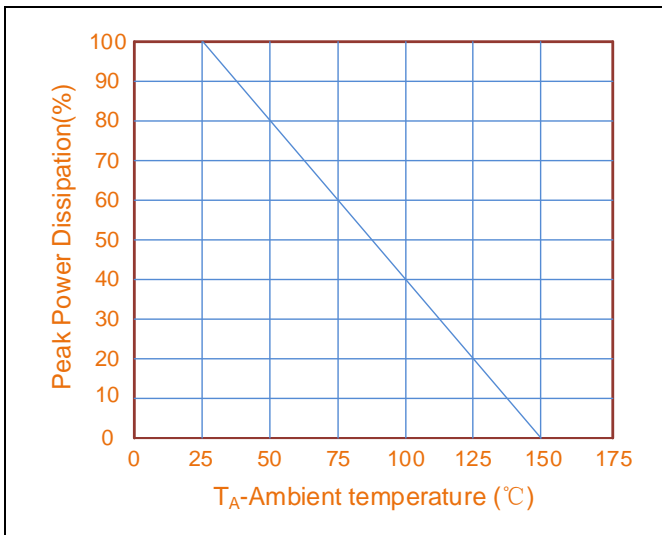


Figure 2. Surge Pulse Waveform

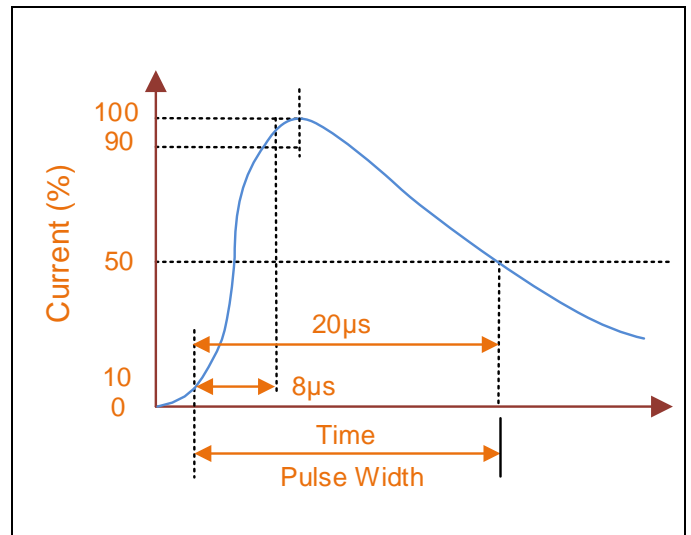
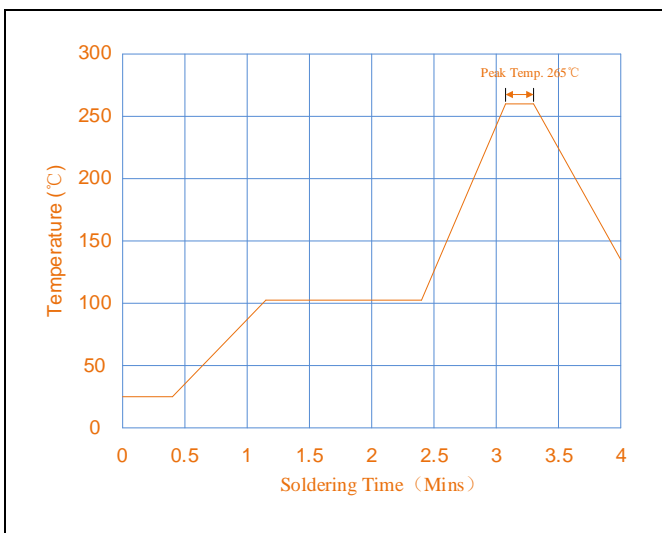
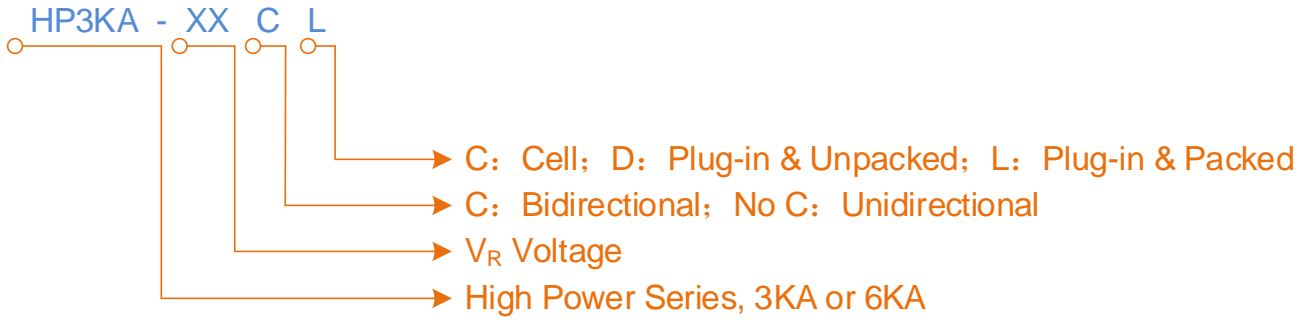


Figure 3. Wave Soldering Temperature Profile



### Part Number Code



### Marking Code

