

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 (T_A=25°C)

Rating	Symbol	Value
8/20μs Surge Current	I _{PP}	20KA
Operating Junction Temperature Range	T _J	-55°C to +150°C
Storage Temperature Range	T _{STG}	-55°C to +125°C

Dimensions

Symbol	Millimeters	Inches
	D	24.15±1.0
B	1.35min	0.053min
H	16.0max	0.630max
L	6.0±1.20	0.236±0.047
d	1.28±0.10	0.050±0.004
W	16.0max	0.630max

Electrical Characteristics (T_A=25°C)

Part Number	Reverse Stand-Off Voltage		Breakdown Voltage @I _T		Test Current I _T (mA)	Maximum Clamping Voltage @I _{PP} V _C (V)	Current Rating @8/20μs I _{PP} (A)	Reverse Leakage @V _{DC} I _R (μA)
	V _{AC} (V)	V _{DC} (V)	V _{B Min.} (V)	V _{B Max.} (V)				
HP20KA-12CL	8.5	12	14.0	16.0	1	28	20000	5
HP20KA-15CL	11	15	17.0	19.0	1	30	20000	5
HP20KA-20CL	14	20	22.0	24.5	1	40	20000	5
HP20KA-25CL	17	25	28.0	31.0	1	50	20000	5
HP20KA-30CL	21	30	33.0	36.5	1	60	20000	5
HP20KA-33CL	23	33	35.0	39.0	1	66	20000	5
HP20KA-38CL	27	38	40.5	49.5	1	69	20000	5
HP20KA-42CL	30	42	47.0	52.0	1	77	20000	5

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$)

Figure 1. Peak Pulse Power Rating Curve

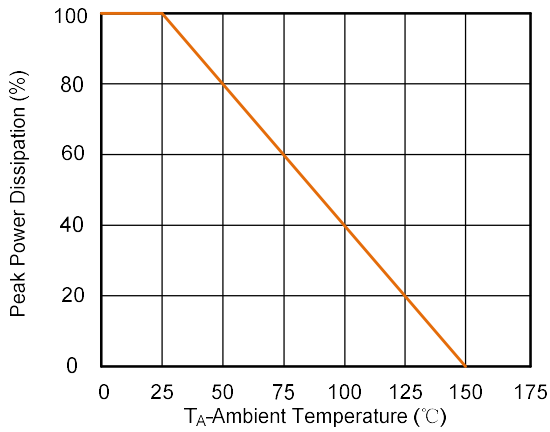


Figure 2. Pulse Derating Curve

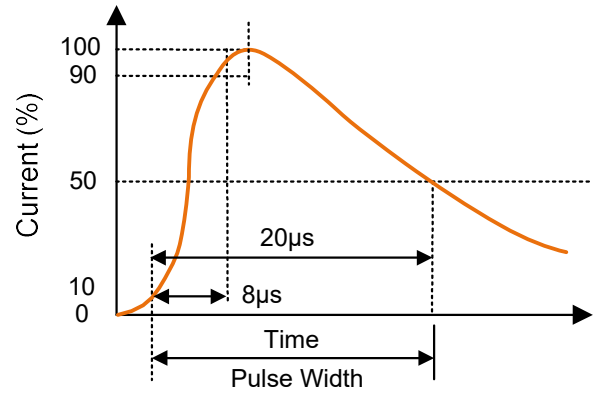
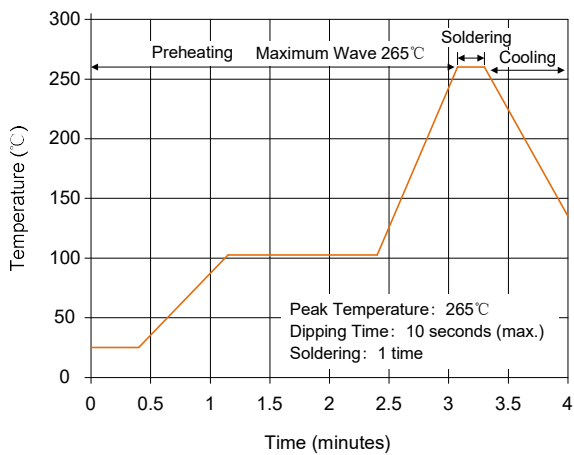


Figure 3. Wave Soldering Temperature Profile



Part Number Code and Marking Code

