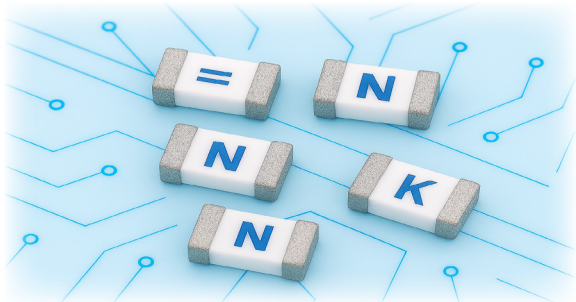


HRF1206VH SolidMatrix Surface Mount Fuse (Voltage High, 1206 Size)



Features

- Tin/Lead (Sn/Pb) solder plated terminals.
- High inrush current withstanding capability.
- Single small case size for current rating from 2.5A to 8A.
- Ceramic monolithic body structure.
- Silver fusing element and silver termination with Ni and Sn/Pb solder plating.
- Symmetrical design and reliable functionality throughout prolonged use.

Applications

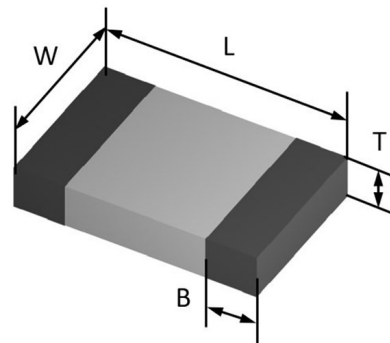
- Satellite/Spacecraft
- Aerospace
- Avionics
- Military
- Telecom DC/DC power
- Drones
- Battery and BMS
- PDU

Product Dimensions

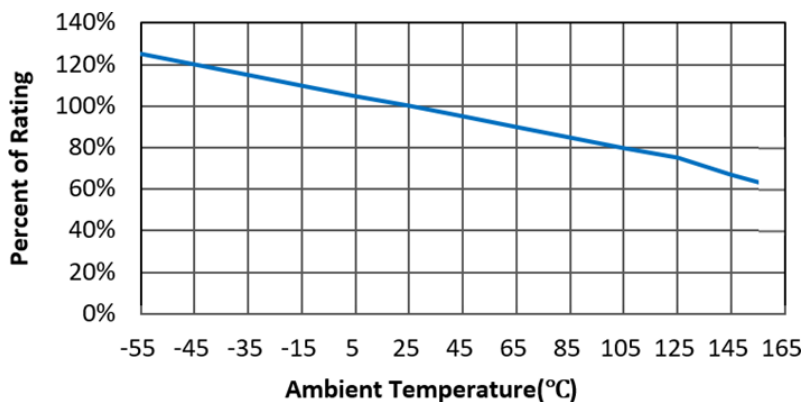
Dimension	Inch	mm
L	0.126 ± 0.008	3.20 ± 0.20
W	0.063 ± 0.008	1.60 ± 0.20
T	0.034 ± 0.008	0.85 ± 0.20
B	0.020 ± 0.010	0.51 ± 0.25

Clearing Time Characteristics

% Of Current Rating	Clearing Time @25°C	
	Min.	Max.
100%	4 hours	-
200% (2.5A - 5.0A)	-	60 seconds
350% (6.0A - 8.0A)	-	5 seconds
1000%	0.0002 seconds	0.02 seconds

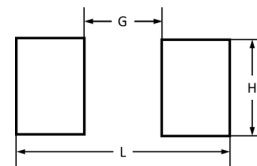


Derating Curve



Recommended Land Pattern

Dimension	1206	Unit
L	0.173 (4.40)	Inch (mm)
G	0.059 (1.50)	Inch (mm)
H	0.071 (1.80)	Inch (mm)



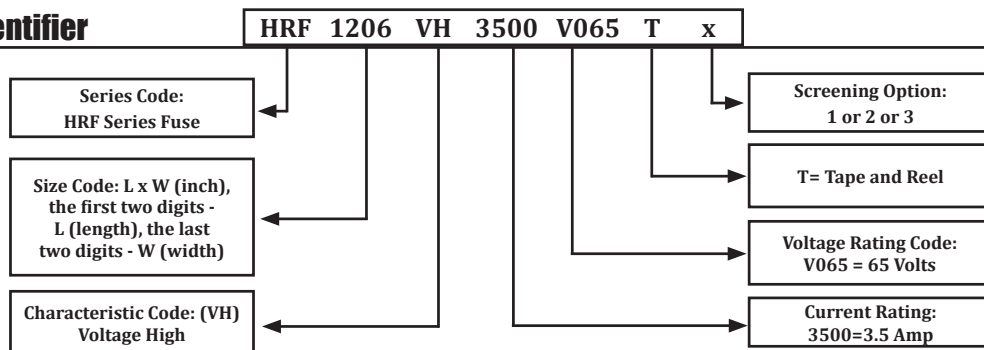
HRF1206VH SolidMatrix Surface Mount Fuse (Voltage High, 1206 Size)

Electrical Characteristics

Part Number	Voltage Rating (VDC)	Current Rating (Amps)	Interrupting Rating	Nominal Cold DCR (Ω)/1	Nominal I^2t (A^2s)/2	Marking Code/3
HRF1206VH2500V065Tx	65	2.5	60A@ 65VDC 80A@48VDC 100A@32VDC	0.065	1.15	J
HRF1206VH3000V065Tx		3.0		0.042	2.40	K
HRF1206VH3500V065Tx		3.5		0.033	2.80	L
HRF1206VH4000V065Tx		4.0		0.026	3.80	M
HRF1206VH4500V065Tx		4.5		0.024	3.90	T
HRF1206VH5000V065Tx		5.0		0.018	4.40	N
HRF1206VH6000V048Tx	48	6.0	80A@48VDC 100A@32VDC	0.011	13.0	+
HRF1206VH7000V048Tx		7.0		0.009	19.0	-
HRF1206VH8000V048Tx		8.0		0.007	20.0	=

1- Measured at $\leq 10\%$ rated current and 25°C ambient. 2- Melting I^2t at 0.001 Second pre-arcing time. 3- Blue marking code

Part Number Identifier



Standard Screening Options:

- Standard 100% Visual Inspection per MIL-PRF-23419/14, AS9102 FAIR, MIL-STD-1580 DPA.
- Option 2: Group A and B Screening per MIL-PRF-23419/14, AS9102 FAIR, MIL-STD-1580 DPA (see AEM Detail Specification for more details).
- Option 3: Group A, B, and C Screening per MIL-PRF-23419/14, AS9102 FAIR, MIL-STD-1580 DPA (see AEM Detail Specification for more details).

Termination :

Tin/Lead (Sn/Pb)

General Specification:

- Operating temperature: -55°C to +150°C (With de-rating).
- Storage Temperature: -55°C to +150°C.
- Moisture sensitivity level: MSL=1.



Certified to
AS9100D
ISO 9001:2015



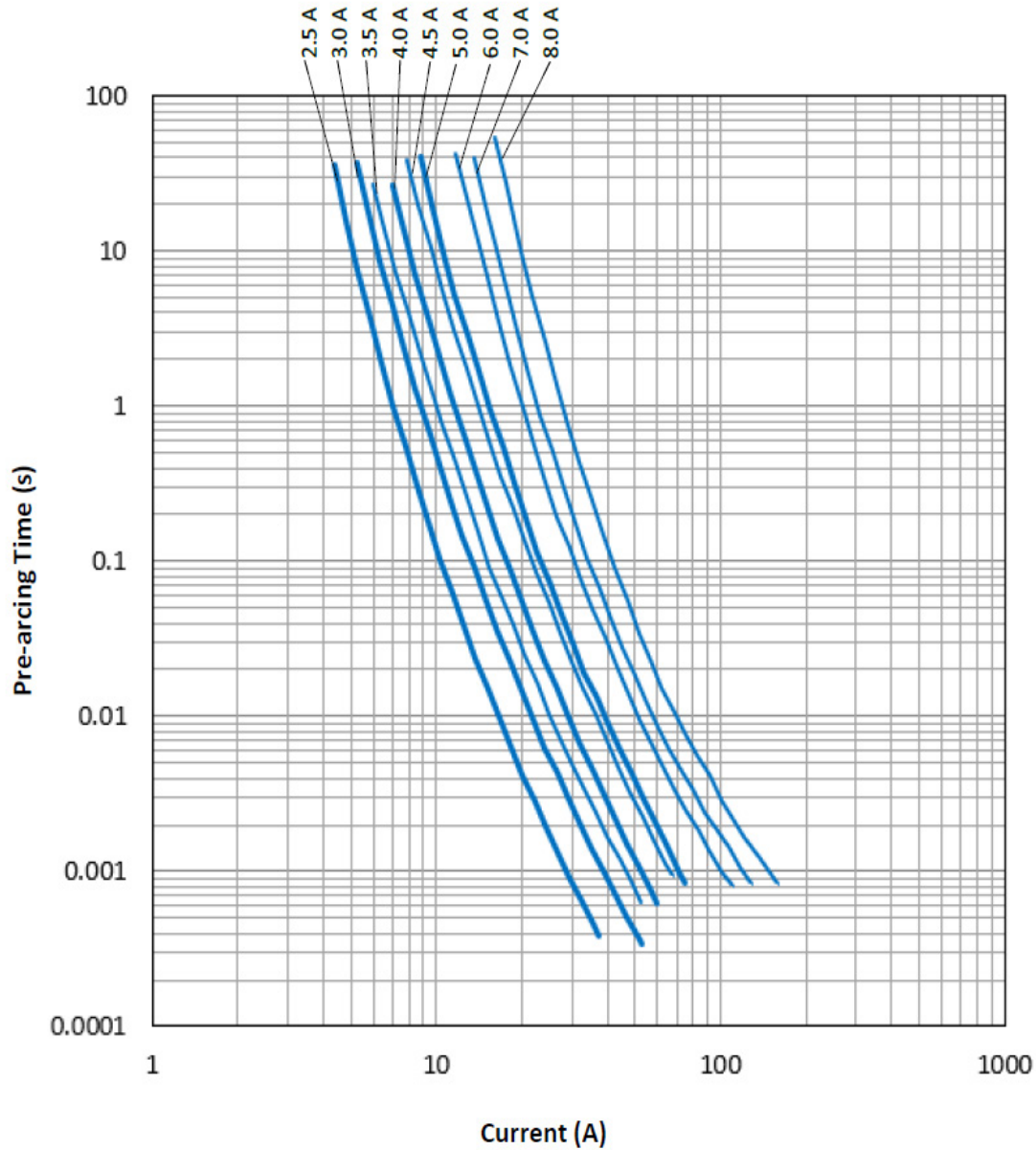
HRF1206VH SolidMatrix Surface Mount Fuse (Voltage High, 1206 Size)

Reliability Tests:

No.	Item	Condition	Criteria
1	Bend	2mm bend	DCR change within $\pm 20\%$. ($\pm 10\%$ for $\leq 1A$), no mechanical damage
2	Solderability	245°C, 5 seconds	New solder coverage $\geq 95\%$
3	Soldering Heat Resistance	260°C, 60 seconds	DCR change within $\pm 10\%$, new solder coverage 75% minimum, no mechanical damage
4	Terminal Strength	Gradually apply 0.5kg force to the side of the part for 60 seconds	DCR change within $\pm 10\%$, no mechanical damage
5	Life	80% rated current (75% for $< 1A$), 2000 hours, ambient temperature +20°C to +30°C	Voltage drop change within $\pm 10\%$
6	Thermal Shock	-65°C to +150°C, 100 cycles	DCR change within $\pm 10\%$, no mechanical damage
7	Mechanical Vibration	5 – 3000 Hz, 0.4 inch double amplitude or 30 G peak	DCR change within $\pm 10\%$, no mechanical damage
8	Mechanical Shock	1500 G, 0.5 milliseconds, half-sine shocks	DCR change within $\pm 10\%$, no mechanical damage
9	Salt Spray	5% salt solution, 48 hours exposure	DCR change within $\pm 10\%$, no excessive corrosion
10	Moisture Resistance	10 cycles	DCR change within $\pm 10\%$, no excessive corrosion

HRF1206VH SolidMatrix Surface Mount Fuse (Voltage High, 1206 Size)

Average Pre-arcing Time Curves



HRF1206VH SolidMatrix Surface Mount Fuse (Voltage High, 1206 Size)

Average I^2t vs. t Curves

