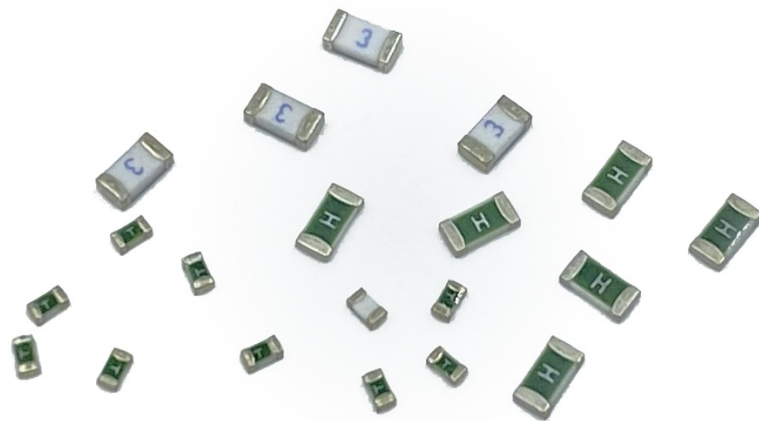


# VDK 熔断保险丝

## VDK FUSED FUSE



优良品质 · 诚信经营

一起携手 · 共创辉煌

# VDKC0402FS FAST ACTING FUSE

## DESCRIPTION

VDKC0402FS Series are fast acting fuse, The chip fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics and also makes our chip fuses more heat and shock tolerant than typical subminiature fuses.

## FEATURES

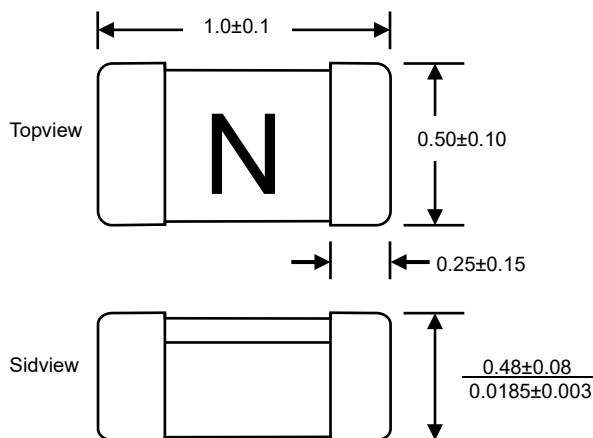
- Fast acting for excessive current
- Compatible with reflow and wave solder
- Ceramic and glass construction
- Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material

## ELECTRICAL CHARACTERISTICS

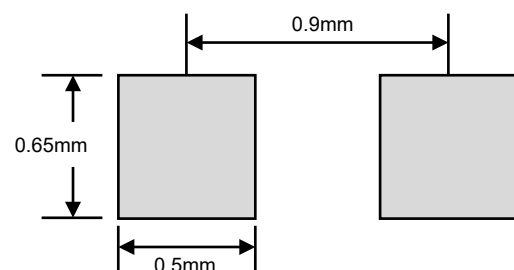
Rated Current	1.0In	2.5In	3.5In
1A~4A 200mA~750mA	4 hour min.	5 sec max. -	- 5 sec max.

## DIMENSIONS

Drawing not to scale (Unit: mm/inch)



Recommended land pattern:



Print solder in thickness of 0.08mm to 0.10mm

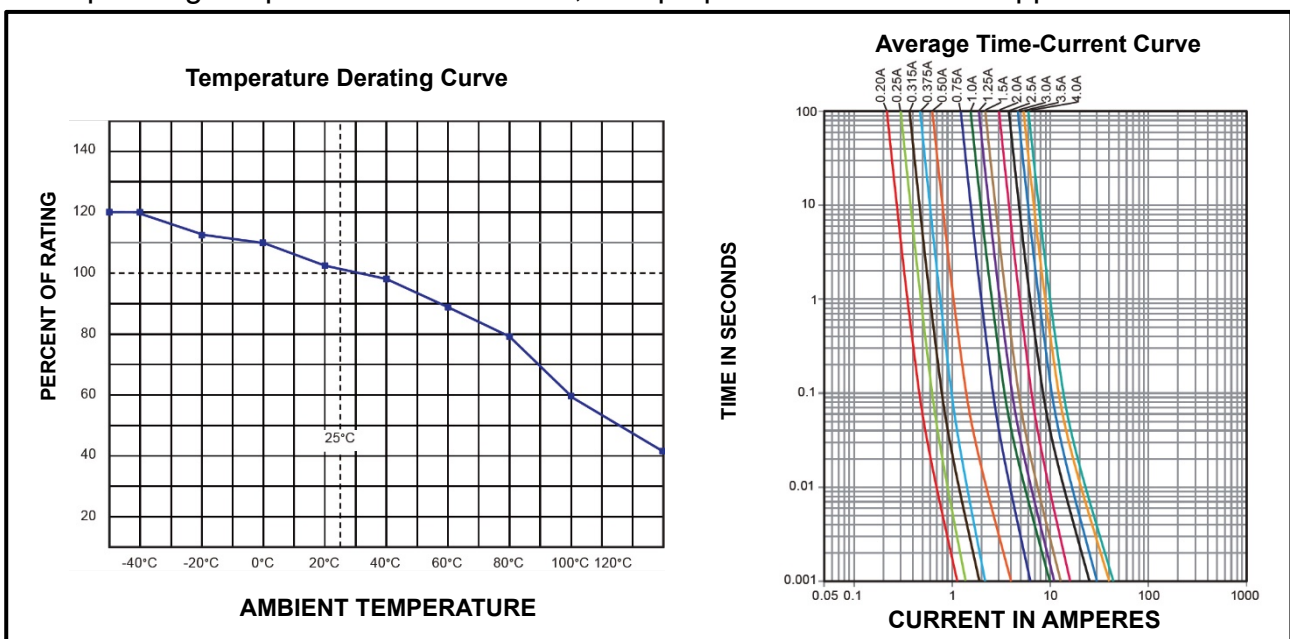
**PERFORMANCE SPECIFICATIONS**

Part No.	Rated Current (A)	Rated Voltage DC	Interrupting Rating	Resistance (mK)**Typ	Typical Melt $I^2t^{**}$ (A <sup>2</sup> sec)
VDKC0402-0200FS	0.20	32V	35A	2250	0.0006
VDKC0402-0250FS	0.25			1500	0.0010
VDKC0402-0315FS	0.315			1000	0.0014
VDKC0402-0375FS	0.375			780	0.0018
VDKC0402-0500FS	0.50			500	0.0043
VDKC0402-0750FS	0.75			220	0.0110
VDKC0402-1100FS	1.00			130	0.040
VDKC0402-1125FS	1.25			100	0.048
VDKC0402-1150FS	1.50			78	0.060
VDKC0402-1200FS	2.00			40	0.130
VDKC0402-1250FS	2.50			24	0.200
VDKC0402-1300FS	3.00			18	0.330
VDKC0402-1350FS	3.50			14	0.450
VDKC0402-1400FS	4.00			11	0.600

- \* DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- \* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C
- \* Typical Melting  $I^2t$  (Measured with a battery bank at rated DC voltage, Measured at 1ms open time, time constant of calibrated circuit less than 50 microseconds).

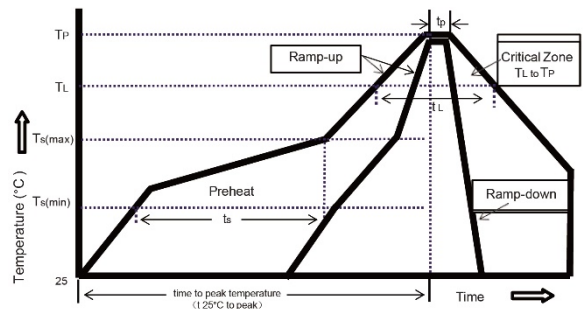
**ENVIRONMENTAL CHARACTERISTIC**

- Normal ambient temperature: 23+/-3°C
- Operating temperature: -55 ~ 150°C, with proper correction factor applied



**SOLDERING PARAMETERS**

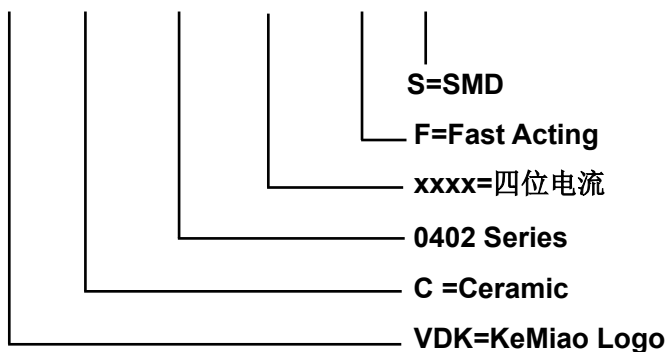
Profile Feature		Lead(Pb) free solder
Preheat and soak	-Temperature min ( $T_{smin}$ )	150°C
	-Temperature max ( $T_{smax}$ )	200°C
	-Time ( $T_{smin}$ to $T_{smax}$ ) (ts)	60~120 Secs
Average ramp up rate $T_{smax}$ to $T_P$		3°C/Secs Max
Liquidous temperature ( $T_L$ ) Time at liquidous ( $t_L$ )		270°C 60~150 Secs
Peak package body temperature ( $T_P$ )		260°C
Time ( $t_p$ ) within 5°C of the specified classification temperature ( $T_C$ )		30 Secs
Average ramp-down rate ( $T_P$ to $T_{smax}$ )		6°C/Secs Max
Time (25°C to Peak Temperature)		8 Minutes Max



Soldering Method		Parameter
Wave solder	Reservoir temperature	260°C
	Time in reservoir	10 Secs max
Infrared reflow	Temperature	260°C
	Time	30 Secs max

**PACKING**

No.	Quantity & Packaging Code
VDKC0402FS	10000 fuses/reel (8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481)

**PART NUMBERING SYSTEM**
**VDK C 0402-xxxx F S**

**OTHERS**

- If in use beyond the requirements of the specifications, must pass through the mutual confirmation!
- If the specification is not appropriate, must through consultation between the two sides and by the company to modify.
- It could be in conformance with another file which made by our company.