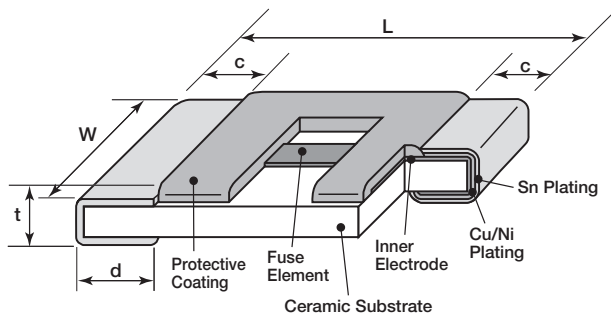




### features

- Small and light chip current fuses for the secondary circuit
- Temperature cycle (-55°C ~ 125°C), 1000 cycle
- Original construction and manufacturing method stabilize fusing characteristics
- Suitable for overcurrent protection of circuit block in small electronic devices
- Suitable for reflow solderings
- Products meet EU RoHS requirements

### dimensions and construction



Type	Dimensions inches (mm)				
	L	W	c	d	t
TF16VN (0603)	.063±.004 (1.6±0.1)	.031±.004 (0.8±0.1)	.014±.004 (0.35±0.1)	.012±.004 (0.3±0.1)	.018±.004 (0.45±0.1)

### ordering information

TF	16V	N	2.50	D	T	TD
Product Code	Size	Fusing Characteristics	Rated Current	Rated Voltage	Terminal Surface Material	Taping
	16V: 0603	N: Normal blow		Nil: DC 32V D: DC 125V DC 70V DC 50V	T: Sn	TD: 4mm pitch punch paper

For further information on packaging, please refer to Appendix A.

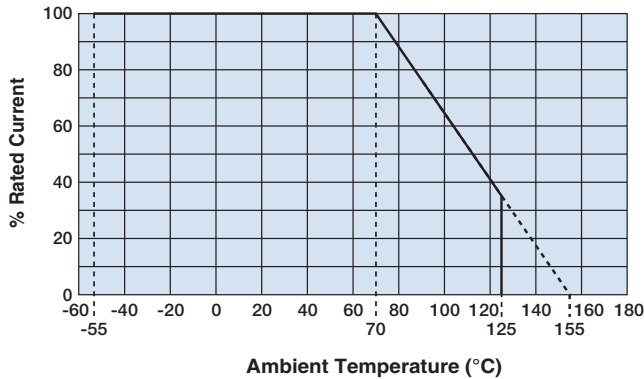
### ratings

Type	Marking	Rated Current	Fusing Time	Internal R. (mΩ)Max.	Rated Voltage	Rated Ambient Temp.	Operating Temperature Range
TF16VN0.40	H	0.40A	Open within 5 sec. at 250% rated current. Refer to the graph of fusing characteristics.	760	DC 32V (DC125V)	+70°C	-55°C ~ 125°C
TF16VN0.50	F	0.50A		520			
TF16VN0.63	I	0.63A		370			
TF16VN0.80	K	0.80A		200	DC 32V (DC70V)		
TF16VN1.00	L	1.00A		160			
TF16VN1.25	M	1.25A		130			
TF16VN1.60	N	1.60A		100			
TF16VN2.00	S	2.00A		80	DC 32V (DC50V)		
TF16VN2.50	T	2.50A		60			
TF16VN3.15	U	3.15A		40			

High rated voltage products (DC 125V: 0.4A to 0.5A, DC 70V: 0.63A to 2.5A, DC 50V: 3.15A) are available. Please ask KOA sales.

### environmental applications

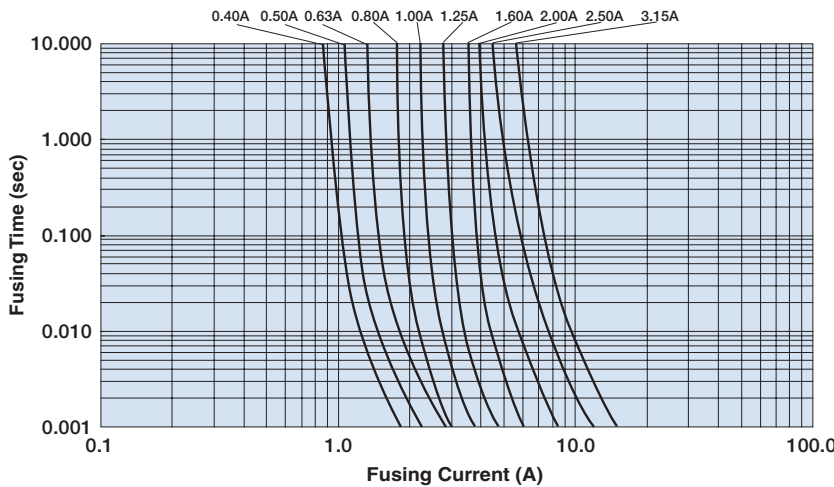
#### Derating Curve



Stationary current: Regard the peak of stationary current waveform as stationary current value when the stationary current is repeated pulse.

Temperature Derating: Rated Current needs to be derated if used at an ambient temperature of 70°C or more. Refer to the derating coefficient on the left figure.

#### Fusing Characteristics (Average Fusing Time)



#### Performance Characteristics

Test Items	Performance Requirements $\Delta R \pm \%$		Test Methods
	Limit	Typical	
Fusing Characteristics	Within 5 seconds	—	250% of rated current shall be carried (@25°C)
Bending Test	No mechanical damages	—	Distance between holding points 90mm, bending width 2mm, 1 time.
Resistance to Soldering Heat (Reflow Soldering)	10	5	Preheating: 150+30°C, 90 ± 30 seconds Heating: 230°C or more, 30 ± 10 seconds, max. 260°C
Solderability	95% coverage min.	—	245°C±3°C, 3 seconds ± 0.5 seconds
Load Life	10	5	70°C±2°C, 1000h, Rated current × 100%, 1.5h ON/0.5h OFF cycle
Load Life Moisture	10	5	85°C±2°C, 85%±5%RH, 1000h, Rated current × 10%, 1.5h ON/0.5h OFF cycle
Rapid Change of Temperature	10	5	-55°C (30min.)/+125°C (30min.) 1000 cycles
Resistance to Solvent	No evidence of damages to protective coating and marking.	—	Conforming to MIL-STD-202F
Residual Resistance	10kΩ or more	—	Measure DC resistance after fusing

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

10/17/18