SLOW BLOW FUSES



FUSE

DESCRIPTION

The PF0603S Series are high inrush slow blow chip fuses that are designed to protect consumer electronics, computers and telecommincations equipment and devices from the risk of fire or shock caused by over-currents.

The PF0603S Series is available in a rugged ceramic and glass package. These devices have excellent environmental performance.

FEATURES

- High Inrush Current Withstanding Capability
- Compatible with Reflow and Wave Solder
- Excellent Environmental Performance
- RoHS & REACH Compliant
- Halogen-Free Material
- Life Test: MIL-STD-202, Method 108A
- Humidity Bias: MIL-STD-202, Method 103
- Moisture Resistance Test: MIL-STD-202, Method 106G
- Thermal Shock: MIL-STD-202, Method 107G
- Terminal Strength Test: AEC-Q200-005 Appendix 2(Note 1mm Min)
- Vibration: MIL-STD-202, Method 204D
- Mechanical Shock: MIL-STD-202, Method 213B
- Solderability: ANSI/J-STD-002
- Resistance to Solder Heat: MIL-STD-202, Method 210A
- Resistance to Solvents Test: MIL-STD-202, Method 215A

APPLICATIONS

- Telecommications Equipment - DSL/Cable Modems
- SMART Phones and other Handheld Devices
- Computers - Laptops, Desktops, Servers
- Computer Peripherials - Printers, LCD Panels, Scanners
- Consumer Electronics - DVD Player, MP3/4 Player

MECHANICAL CHARACTERISTICS

- Ceramic and Glass Package
- Approximate Weight: TBA grams
- Lead-Free
- Soldering Method
  - Wave Soldering: 260°C, 10s Max
  - Reflow Soldering: 260°C, 30s Max

ELECTRICAL CHARACTERISTICS		
AMPERE RATING	% OF AMP RATING	OPENING TIME
1A-5A	100%	4 Hours Minimum
1A-5A	200%	1 ~ 120 Seconds
1A-5A	300%	0.1 ~ 3 Seconds
1A-5A	800%	0.001 ~ 0.05 Seconds

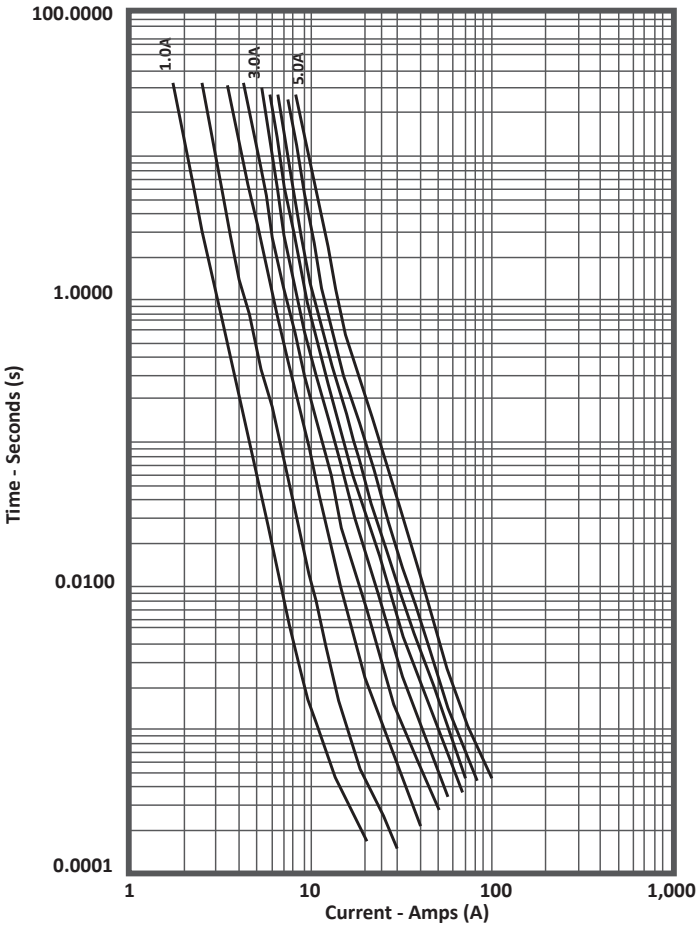
TYPICAL DEVICE CHARACTERISTICS

ELECTRICAL SPECIFICATIONS						
PART NUMBER	MARKING CODE	CURRENT RATING AMPS	VOLTAGE RATING DC	INTERRUPTING RATING (Note 1) DC AMPS	TYPICAL RESISTANCE (Note 2) OHMS	TYPICAL MELT I^2t (Note 3) DC (A^2s)
PF0603S1	H	1.00	32	35	0.25	0.09
PF0603S1.5	K	1.50	32	35	0.13	0.19
PF0603S2	N	2.00	32	35	0.07	0.30
PF0603S2.5	O	2.50	32	35	0.05	0.61
PF0603S3	P	3.00	32	35	0.035	0.83
PF0603S3.5	R	3.50	32	35	0.024	1.23
PF0603S4	S	4.00	32	35	0.02	2.22
PF0603S4.5	X	4.50	32	35	0.016	2.74
PF0603S5	T	5.00	32	35	0.013	3.40

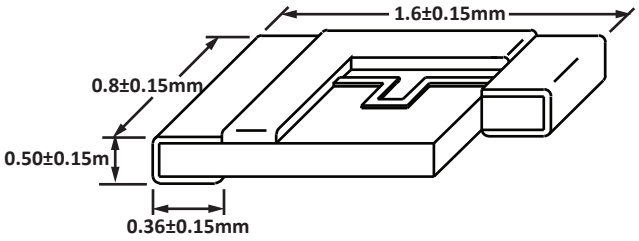
NOTES
1. DC Interrupting Rating - measured at rated voltage, time constant of less than 50 microseconds, battery source.
2. DC Cold Resistance - measured at 10% of rated current.
3. Typical Melting I2t - measured with a battery bank at rated DC voltage and at 0.001 second clear time, time constant of calirated circuit less than 50 microseconds. Device designed to carry rated current for four hours minimum. An operating current of 75% or less of rated current is recommended, with further derating required at elevated ambient temperatures.

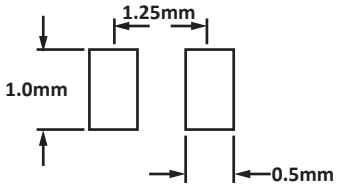
TYPICAL DEVICE CHARACTERISTICS

FIGURE 1
TIME CURRENT CURVE

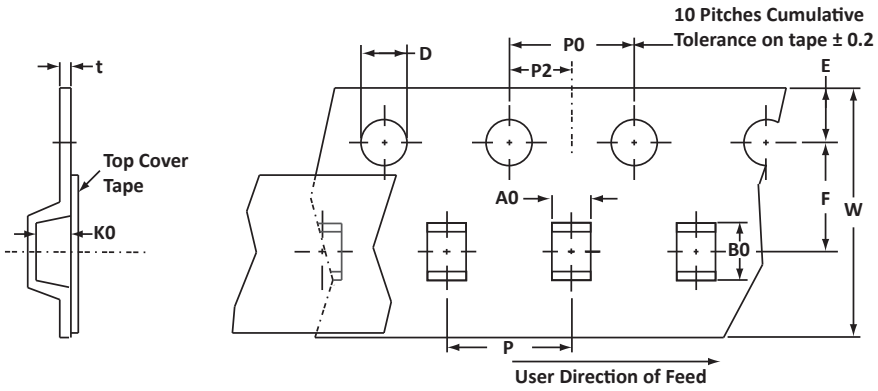


PACKAGE OUTLINE AND PAD LAYOUT INFORMATION





TAPE AND REEL



SPECIFICATIONS												
REEL DIA.	TAPE WIDTH	A0	B0	K0	D	E	F	W	P0	P2	P	tmax
178mm (7")	8mm	1.05 ± 0.10	1.97 ± 0.10	0.51 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	3.50 ± 0.05	8.00 ± 0.30	4.00 ± 0.10	2.00 ± 0.05	4.00 ± 0.10	0.25

NOTES
1. Dimensions are in millimeters.
2. Surface mount product is taped and reeled in accordance with EIA-481.
3. Suffix - T7 = 7" Reel - 5,000 pieces per 8mm tape.
4. Marking on Part - marking code.

ORDERING INFORMATION					
BASE PART NUMBER (xx = Voltage)	LEADFREE SUFFIX	TAPE SUFFIX	QTY/REEL	REEL SIZE	TUBE QTY
PF0603Sxx	N/A	-T7	5,000	7"	N/A
This device is only available in a Lead-Free configuration.					

COMPANY INFORMATION

COMPANY PROFILE

In business more than 20 years, ProTek Devices™ is a privately-held company located in Tempe, Arizona, that offers a product line of transient voltage suppressors (TVS); avalanche breakdown diodes; steering diode TVS arrays and other surge suppressor component products. These TVS devices protect electronic systems from the effects of lightning, electrostatic discharge (ESD), nuclear electromagnetic pulses (NEMP), inductive switching and EMI / RFI. ProTek Devices also offers high performance interface and linear products that include analog switches; multiplexers; LED drivers; audio control ICs; RF and related high frequency products. The analog devices work in a host of consumer; industrial; automotive and other applications.

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