

Description

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



Features

- Rapid interruption of excessive current
- Compatible with reflow and wave solder
- Ceramic and glass construction
- One time positive disconnect
- Lead free and Halogen free material

Application

- Secondary circuit protection
- Laptop, notebook, netboo
- Flat panel displays
- High definition television(HDTV)
- LCD/LED backlighting
- Computers and peripherals
- Gaming console systems
- Handheld/portable equipment
- Mobile device charges
- Automotive
- Central body control module
- Heating ventilation and air conditioning
- Doors,window lift and seat control
- Digital instrument cluster
- In-vehicle infotainment and navigation
- Electric pumps,motor control and
- Powertrain control module(PCU)/Engine
- Transimission Control Unit(TCU)

Electrical Characteristics

Rated Current	% of Amp Rating	Opening Time
1A~8A	100%	4hours, min
1A~8A	200%	1.0s - 60 s
1A~8A	250%	5.0s max

Agency information

File Number:E365879, Guide JDYX2/JDYX8

Specification

Part NO. 料号	Rated Voltage 额定电压	Rated Current 额定电流	Breaking Capacity 分断能力	Typical Cold Resistance (Ω) 冷电阻	Typical Pre-Arcing I ² t(A ² S) 融化热能	Marking 标示
06.000.1	63V _{DC}	1A	50A@63V _{DC}	0.2575	0.02	B
06.000.1.5	63V _{DC}	1.5A	50A@63V _{DC}	0.1375	0.07	H
06.000.2	63V _{DC}	2A	50A@63V _{DC}	0.0705	0.14	K
06.000.2.5	63V _{DC}	2.5A	50A@63V _{DC}	0.0520	0.25	L
06.000.3	63V _{DC}	3A	50A@63V _{DC}	0.0350	0.30	O
06.000.3.5	32V _{DC}	3.5A	50A@32V _{DC}	0.0238	0.50	R
06.000.4	32V _{DC}	4A	50A@32V _{DC}	0.0205	0.8	S
06.000.5	32V _{DC}	5A	50A@32V _{DC}	0.0132	1.6	T
06.000.6	32V _{DC}	6A	50A@32V _{DC}	0.0089	2.6	V
06.000.7	32V _{DC}	7A	50A@32V _{DC}	0.0070	3.3	X
06.000.8	32V _{DC}	8A	50A@32V _{DC}	0.0054	4.5	Z

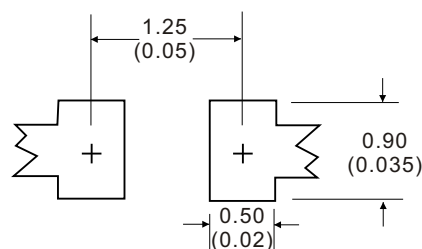
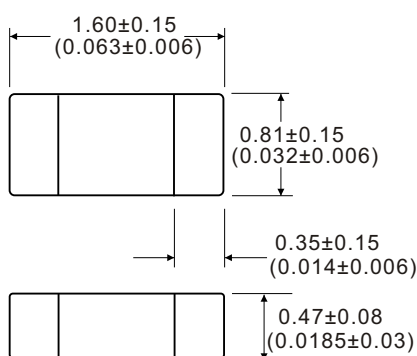
Notes * DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 degrees

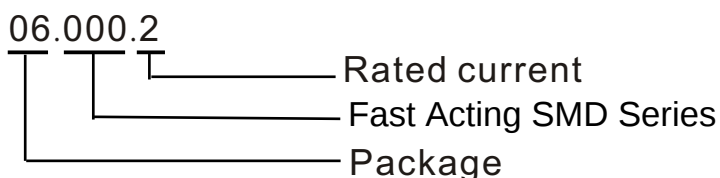
* Typical Pre-arcing I²t are measured at 10I_n Current

* For fuse below 1A, the color of glass coating is Blue; for 1A and above, it's Green.

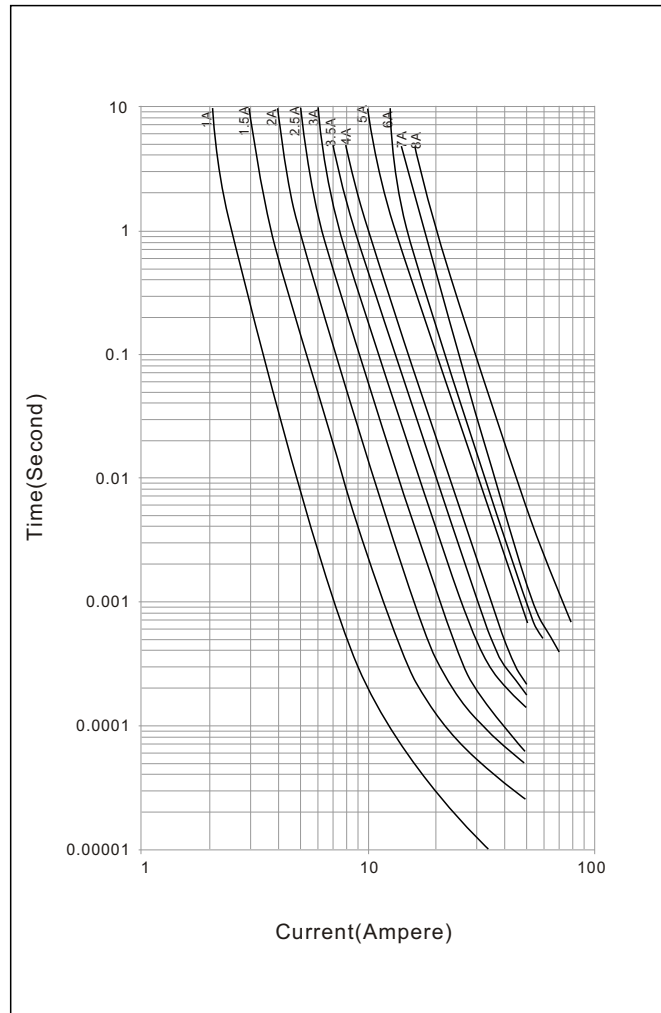
Dimensions (Unit: mm/inch)



Part Numbering System



Time -Current Curves



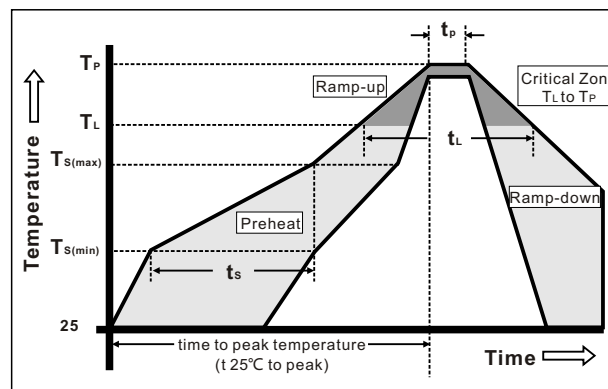
Product Characteristics

Materials	Body: Ceramic Terminations: Silver over-plated with tin Element: Alloy(Ag,Cu,Zn) Cover Coat: Glass
Operating Temperature	-55°C to 125°C Consult temperature derating curve chart.
Thermal Shock	300 cycles -55°C to 125°C
Humidity	MIL-STD-202F, Method 103B, Condition D
Vibration	Per MIL-STD-202F, Method 201A
Insulation Resistance (After Opening)	Greater than 10,000 ohms
Resistance to Soldering Heat	MIL-STD-202G, Method 210F, Condition D

Installation Recommendations

Wave Soldering Parameters

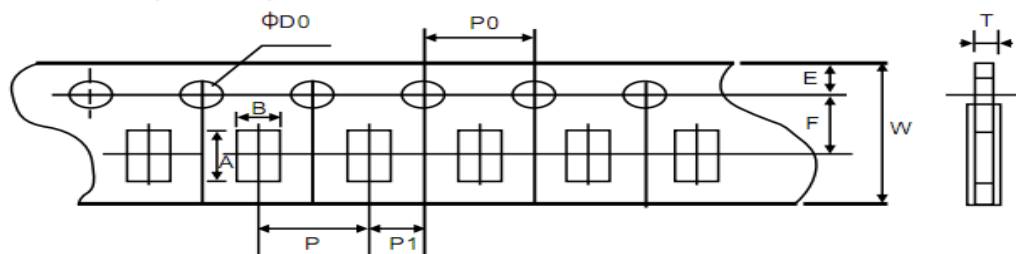
Reflow Condition		Pb-free assembly
Pre Heat	- Temperature Min ($T_{s(min)}$)	150°C
	- Temperature Max ($T_{s(max)}$)	200°C
	- Time (Min to Max) (t_s)	60 – 120 seconds
Average Ramp-up Rate (Liquidus Temp (T_L) to peak)		3°C/second max.
TS(max) to TL - Ramp-up Rate		5°C/second max.
Reflow	- Temperature (T_L) (Liquidus)	217°C
	- Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_P)		260±0/-5°C
Time within 5° C of actual peak Temperature (t_P)		30 seconds
Ramp-down Rate		6°C/second max
Time 25° C to peak Temperature (T_P)		8 minutes max.
Do not exceed		260°C



Solder Pot Temperature: 260°C max

Solder Dwell Time: 10 Seconds max

Packaging Dimensions



Type	A	B	W	F	E
Spec	1.85±0.10	1.10±0.10	8.00±0.10	3.50±0.05	1.75±0.10
Type	P	P0	P1	D0	T
Spec	4.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	0.60±0.10

(Unit: mm)

Reel Dimensions (Unit:mm)

Type	A±0.5	B±0.5	C±1	D±1	M±2	W±1.5	T±2.0
0603	2.5	13	31	80	178	10	3.5

Chip Size	Parts on 7 inch(178mm) Reel
0603(1608)	5000

