

Type CFS06 RoHS

1.6mmx 0.80mm (0603)
Fast Acting Fuse Series



E345565



Feature

All high-density boards
100% lead-free RoHS and REACH compliant
Low internal resistance
Operating temperature range: -40°C to +125°C
Small portable devices, mobile phone, PDA etc.
Digital products
Game equipment
LCD/LED monitors & modules (Backlight inverter)
Battery package
Auto Electronics

Catalog Number	Marking	Ampere Rating [In]	Voltage Rating (V)	Nominal Resistance Cold Ohms	Nominal Melting I ² t A ² Sec
CFS06V5TR40	E	0.40A	50V DC	0.350	0.0040
CFS06V5TR50	F	0.50A		0.175	0.0090
CFS06V3TR63	I	0.63A		0.130	0.0170
CFS06V3TR70	J	0.70A	32V DC	0.148	0.0230
CFS06V3TR80	K	0.80A		0.093	0.0240
CFS06V3T1R0	L	1.00A		0.065	0.0260
CFS06V3T1R25	M	1.25A		0.047	0.0570
CFS06V3T1R50	P	1.50A		0.036	0.0810
CFS06V3T1R60	N	1.60A		0.034	0.0860
CFS06V3T2R0	S	2.00A		0.026	0.1150
CFS06V3T2R50	T	2.50A		0.020	0.2000
CFS06V3T3R00	3	3.00A		0.016	0.2100
CFS06V3T3R15	U	3.15A		0.015	0.2790
CFS06V3T4R0	W	4.00A		0.012	0.3260
CFS06V3T5R0	Y	5.00A		0.009	0.6220
CFS06V3T6R0	6	6.00A		0.006	2.7000

Approval

UL Recognized 0.4A~6A

Electrical Characteristic

Rated current	1 In	2.5 In	3 In
	MIN	MAX	MAX
0.4A~6A	4hr	5sec	0.2 sec

Environmental Temperature at 25°C

Interrupting Rating

0.4A~0.5A : 50 amperes at 50V DC
0.63A~6A : 50 amperes at 32V DC

Soldering Method

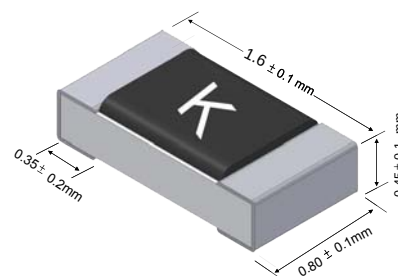
*Reflow Soldering : 260°C, 10Sec. max.
*Wave Soldering : 260°C, 10Sec. max.
*Hand Soldering : 350°C, 3Sec. max.

Material

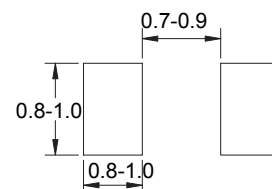
Construction Body Material: Ceramic
Termination Material: Tin(Sn)
Fuse Element: Copper(Cu), Tin(Sn)
Cover coat: Epoxy



Dimension



Recommended Land Pattern

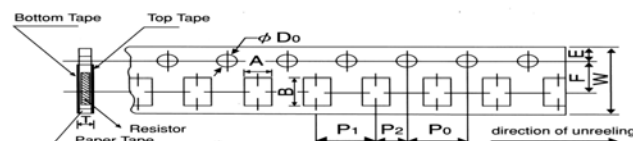


Reflow Solder

Tape and Reel Specification

Unit : mm

Item	A	B	W	F	E	P ₁	P ₂	P ₀	D ₀	T
Criterion	1.1 ±0.1	1.9 ±0.1	8.0 ±0.2	3.5 ±0.05	1.75 ±0.1	4.0 ±0.1	2.0 ±0.05	4.0 ±0.1	Φ1.5 ±0.1	0.64 ±0.1

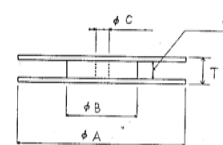


Unit : mm

Item	ΦA	ΦB	ΦC	W	T
Criterion	178 ±2.0	60.0 ±1.0	13.0 ±1.0	9.0 ±1.0	11.4 ±2.0

Tape & Reel Quantity

5000 pcs/reel



Environmental Specification

Thermal Shock

10cycles of -40°C to +125°C ΔR<10%

Humidity

85±3°C; 85±5%RH; 1000Hrs
No mechanical damages

Vibration

With 10-55-10Hz/min; 1.5mm; XYZdirection/2hrs
No mechanical damages

Insulation Resistance

10,000 ohms or more after opening

Resistance to soldering heat

260±5°C; 10±1 Sec
No mechanical damages

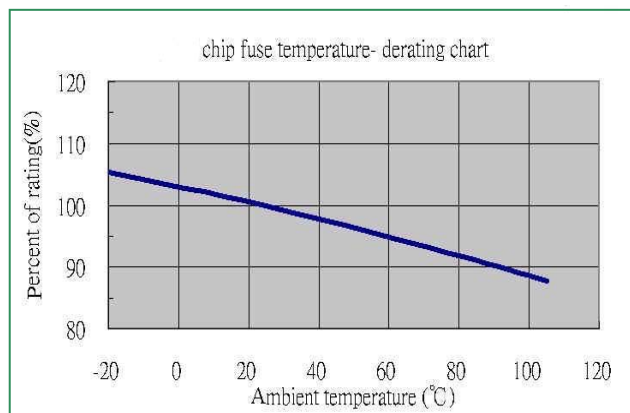
Solder ability

245±5°C; 2±0.5 Sec
95% coverage minimum

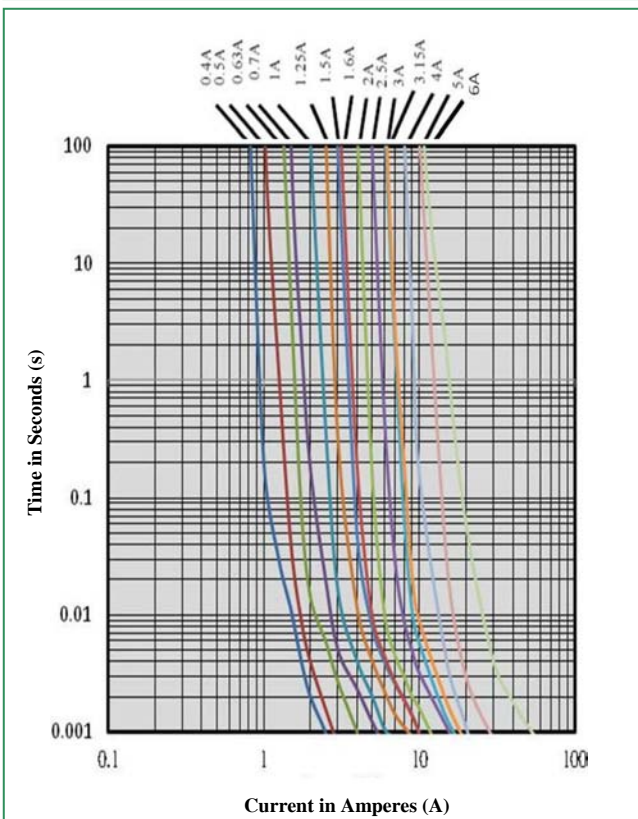
Terminal strength

10N; 10Sec
No mechanical damages

Temperature Rerating Curve

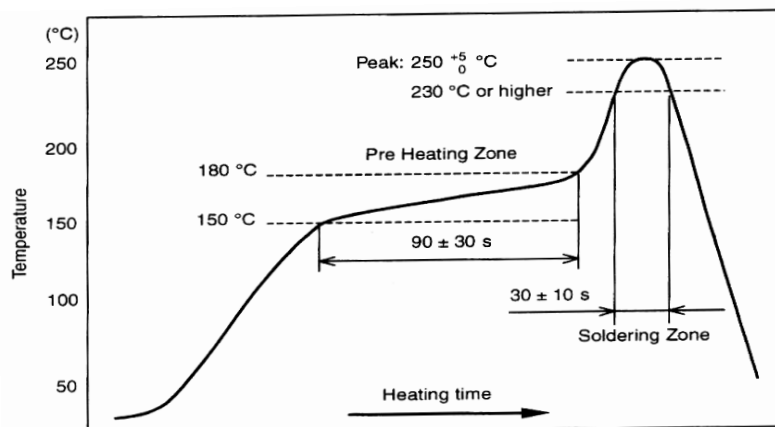


Average Time Current Curves



Soldering Parameters

Reflow profile : (solder : Sn96.5 / Ag3 / Cu0.5)



Peak : $250 \pm 5^\circ\text{C}$, 5 sec
-0

Pre – heat Zone : 150 to 180 °C , 90±30 sec

Soldering Zone : 230°C or higher , 30±10 sec

Part Numbering System

CFS	12	V3	T	1R0
CF:High-surge Enhanced	04:1.0x0.52mm	VA:125V	T:Paper Tape	R50:0.50A
CFS: Fast acting	06:1.6x0.80mm	V6:63V	1206/0603:5K	1R0:1.00A
CP:Fast acting	12:3.1x1.55mm	V5:50V	0402:10K	1R50:1.50A
CPS: Time-Lag		V3:32V		2R0:2.00A
				2R50:2.50A
				3R0:3.00A
				5R0:5.00A
				15R0:15.0A