

CHIP FUSES; RECTANGULAR TYPE KAMAYA OHM

FCCR₁₀

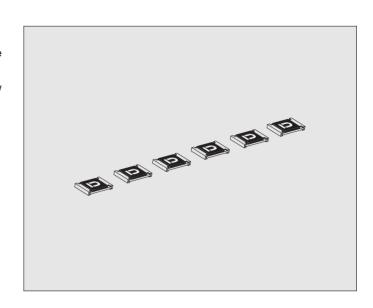
Features

- 1. Suitable for over-current protection of the circuit of miniature portable equipment.
- 2. Low internal resistance compared with FCC10AB series for low power consumption and voltage dropping.
- 3. Pb*1, Halogen*2 and Antimony*3 free product
 - *1 Pb \leq 1000ppm
 - *2 Cl or Br \leq 900ppm, Cl+Br \leq 1500ppm
 - *3 Sb2O3 \leq 900ppm
- 4. Certified UL, c-UL.

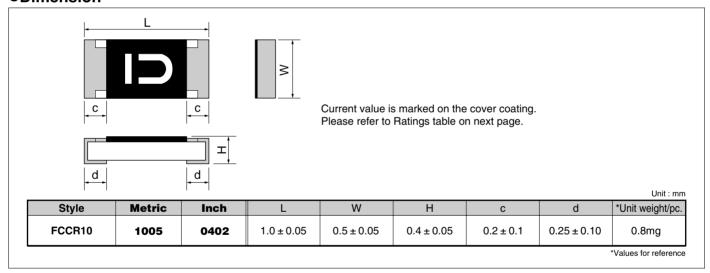
·File No. : E176847



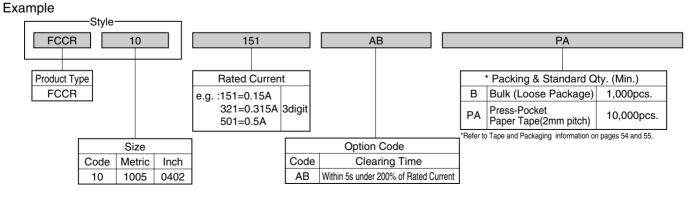
- 5. Major application
 - •PC related equipment and peripherals (PC, Hard Drive, Printer etc.).
 - •Small portable devices (Mobile phone, PDA Battery Charger etc.).
 - •Digital Camera (Digital still camera).
 - •Game equipment.
 - •LCD monitors. LCD modules.



Dimension



Part Number Description



●Ratings/Option Code : AB (Fast-Acting type)

Size		Ctulo	Rated Current		Internal Resistance	Morle	Interventing Detine	Time / Current Characteristics	Working Temperature Range
Metric	Inch	Style	Code	Α	m ohm max.	nax. Mark	Interrupting Rating	Time / Current Characteristics	°C
1005	0402	FCCR10	151	0.15	1850	_	- 24Vd.c. 35A	Rated Current × 200% Opening time 5s Max.	-55~+125
			201	0.2	1250	Z			
			251	0.25	880	С			
			321	0.315	600	D			
			401	0.4	400	E			
			501	0.5	300	F			

Performance Characteristics

Description	Requirements	Test Methods		
Carrying capacity	No fusing		Carrying Current : Rated current × 110%, 70°C, 1h.	
Temperature rise on the surface	75°C max.		Ambient temperature : 10°C~30°C Carrying Current : Rated current	
Bend strength of the face plating	No visible damage	IEC 60127-4 Clause 8.3	1mm/s, amount of bend : 3 mm	
Solderability	At least 95% of the terminal surface must be covered by new solder	IEC 60127-4 Clause 8.5	Be immersed into solder at 235°C for 2s.	
Resistance to soldering heat	No visible damage. Meet electrical requirement	IEC 60127-4 Clause 8.7	Be immersed into solder at 260°C for 10s.	
Endurance (rated load)	The voltage drop shall not have increased by more than 10% of the value measured before the test	IEC 60127-4 Clause 9.4	At normal condition. Rated current ×1.05, 1h"ON", a quarter"OFF",100 cycles. Rated current ×1.25, 1h.	

Note. Please contact KAMAYA for special applications.

Recommended Derating for Rated Current

· Nominal Derating

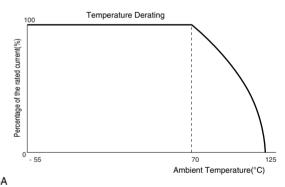
Nominal Derating ≤ 75% of Rated Current

· Temperature Derating

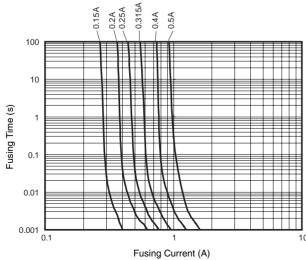
Please refer to the following graph regarding the current derating value for ambient temperature.

Ex.) If FCCR10 501AB (Rated Current:0.5A) is used under ambient temperature 70°C, Kamaya recommends, less than the current value derated as below,

Rated Current: 0.5A× (Nominal Derating: 75%×Temperature Derating: 100%) = 0.375A



Time / Current Characteristics



Help Support of Fuse Selection

Please contact kamaya sales Dept, if you need to confirm In-rush Current endurance, Anti-pulse performance etc. We can provide Application Guide for FCCR10 selection.

