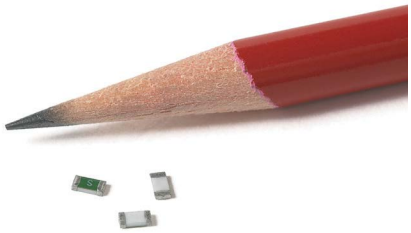
CC12H

High I²t Chip fuses



Product features

- High I²t
- High inrush withstand capability
- AEC-Q200 qualified: (750 mA to 30 A)
- Excellent temperature and cycling characteristics
- 1206 (3216 metric) compact design utilizes less board space
- Compatible with solder reflow and wave solder

Applications

Secondary circuit protection

- Laptop, notebook, netbook
- Tablets, e-readers
- Flat panel displays
- High definition television (HDTV)
- LCD/LED backlighting
- Computers and peripherals
- Gaming console systems
- Handheld/portable equipment
- Mobile device chargers

Automotive

- Central body control module
- Heating ventilation and air conditioning controllers (HVAC)
- Doors, window lift and seat control
- Digital instrument cluster
- In-vehicle infotainment (IVI) and navigation
- Electric pumps, motor control and auxiliaries
- Powertrain control module (PCU)/Engine Control unit (ECU)
- Transmission Control Unit (TCU)

Agency information

- cURus Recognition: File E19180, Guide JDYX2/JDYX8
- AEC-Q200 qualified (750 mA to 30 A)

Ordering

- Use ordering number (see page 6 for details)

Packaging suffixes

- -TR (3000 parts per 7" diameter reel, tape width 8 mm)

Electrical characteristics

Amp Rating	% of Amp Rating	Opening Time
250 mA – 30 A	100%	4 hours minimum
1 A – 3 A	200%	1.0 s – 60 s
25 A – 30 A	200%	120 s max
1 A – 5 A	250%	5.0 s max
1 A – 5 A	300%	0.1 s – 3.0 s
250 mA – 750 mA	350%	5 s max
6 A – 20 A	350%	5 s max
250 mA – 500 mA	1000%	0.01 ms – 1.0 ms
750 mA – 30 A	1000%	0.2 ms – 20 ms

Product specifications

Part Number	Current rating (A)	Voltage rating (V_{DC})	Interrupting rating[1] (A)	Typical DC cold resistance[2] (mΩ)	Typical pre-arcing[3] I²t (A^2s)	Typical voltage drop (mV)	Part marking
CC12H250mA	0.25	63	50	3500	0.00038	1400	.25
CC12H375mA	0.375	63	50	1750	0.00077	730	A
CC12H500mA	0.5	63	50	980	0.0019	700	.5
CC12H750mA	0.75	63	50	800	0.15	700	E
CC12H1A	1	63	50	470	0.18	490	H
CC12H1.5A	1.5	63	50	218	0.4	355	K
CC12H2A	2	63	50	133	1.1	305	N
CC12H2.5A	2.5	63	50	79	1.7	240	O
CC12H3A	3	63	50	49	2.2	185	P
CC12H3.5A	3.5	63	50	37	2.7	180	R
CC12H4A	4	63	50	33	3.2	169	S
CC12H4.5A	4.5	32	100	28	4.2	160	X
CC12H5A	5	32	100	23	6	140	T
CC12H6A	6	32	100	15.5	12	150	F
CC12H7A	7	32	100	11.5	18	130	J
CC12H8A	8	32	100	7.3	18	110	V
CC12H10A	10	32	100	6.5	30	90	U
CC12H12A	12	32	100	4.7	45	90	W
CC12H15A	15	32	100	3	33	90	Y
CC12H20A	20	32	100	2	80	90	Q
CC12H25A	25	32	200	3	60	90	L
CC12H30A	30	32	200	2.1	100	90	Z

1. DC interrupting rating measured at rated voltage, time constant of less than 50 microseconds, battery source.
2. Typical DC cold resistance measured at <10% of rated current.
3. Typical pre-arcing I²t value is measured at 10In rated current.