

Flat Type Chip Fuse

Hokuriku Electric Industry Co.,Ltd

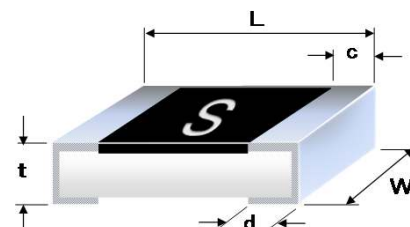


【Model No】

FCL10-***, FCL16-***, FCL20-***

【Feature】

- Suitable to portable electronic device for circuit protection.
- By HDK original structure, this is instant-blowing type chip fuse.
- By HDK original process, it has excellent pulse characteristic.
- No smoking, no fire occur when fused.
- Europe RoHS compliant product.



【Size】

(Unit: mm)

Model No	L	W	t	c	d
FCL10-***	1.00±0.05	0.50±0.05	0.34±0.05	0.20±0.10	0.25±0.10
FCL16-***	1.60±0.15	0.80+0.20/-0.10	0.50+0.15/-0.10	0.25±0.20	0.25±0.20
FCL20-***	2.00+0.20/-0.10	1.25+0.20/-0.10	0.45±0.05	0.25+0.10/-0.15	0.25+0.10/-0.15

【Shape turn composition】

FCL10 - 201 V
① ② ③

① Model No.

Model No.	Size
FCL10	1005
FCL16	1608
FCL20	2012

② Rated current

Marking	Current (A)
201	0.200
251	0.250
321	0.315
351	0.350
381	0.375
401	0.400
501	0.500
631	0.630
751	0.750
801	0.800
102	1.000
142	1.400
132	1.250
152	1.500
162	1.600
202	2.000
252	2.500
302	3.000
322	3.150
402	4.000
502	5.000

③ Packing

Code	Packing
V	Paper taping
B	Bulk

【Specification】

Model No.	Marking	Rated current (A)	Internal resistance (mΩ)Max	Rated voltage (VDC)	Breaking current (A)	Fusing performance	Operating temperature range
FCL10-201	C	0.200	1990	24	50	To be fused within 5 seconds when 200% of rated current applied.	-55℃~125℃
FCL10-251	D	0.250	1350				
FCL10-321	E	0.315	850				
FCL10-351	F	0.350	650				
FCL10-381	G	0.375	590				
FCL10-401	H	0.400	530				
FCL10-501	K	0.500	320				
FCL10-631	L	0.630	220				
FCL10-751	M	0.750	181				
FCL10-801	N	0.800	135				
FCL10-102	P	1.000	115				
FCL10-132	R	1.250	100				
FCL10-142	4	1.400	90				
FCL10-152	S	1.500	85				
FCL10-162	U	1.600	58				
FCL10-202	X	2.000	42				
FCL10-252	Y	2.500	35				
FCL10-302	Z	3.000	27				
FCL10-322	3	3.150	25				

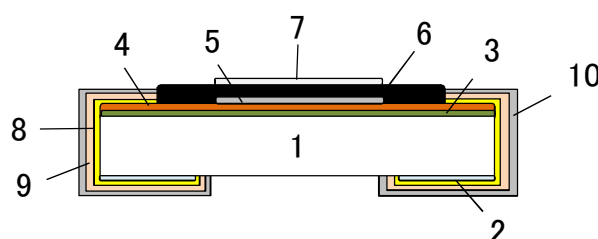
* Design specification are subject to change without prior notice. Please check before purchase and use.

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Model No.	Marking	Rated current (A)	Internal resistance (mΩ)Max	Rated voltage (VDC)	Breaking current (A)	Fusing performance	Operating temperature range			
FCL16-201	C	0.200	1990	50	50	To be fused within 5 seconds when 200% of rated current applied.	-55℃~125℃			
FCL16-251	D	0.250	1350							
FCL16-321	E	0.315	850							
FCL16-351	F	0.350	650							
FCL16-381	G	0.375	590							
FCL16-401	H	0.400	530							
FCL16-501	K	0.500	320							
FCL16-631	L	0.630	220	32				50	To be fused within 5 seconds when 200% of rated current applied.	-55℃~125℃
FCL16-751	M	0.750	181							
FCL16-801	N	0.800	135							
FCL16-102	P	1.000	115							
FCL16-132	R	1.250	100							
FCL16-142	14	1.400	90							
FCL16-152	S	1.500	85							
FCL16-162	U	1.600	58							
FCL16-202	X	2.000	42							
FCL16-252	Y	2.500	35							
FCL16-302	Z	3.000	27							
FCL16-322	3	3.150	25							
FCL16-402	4	4.000	17							
FCL16-502	5	5.000	12							
FCL20-201	201	0.200	1990	50	50	To be fused within 5 seconds when 200% of rated current applied.	-55℃~125℃			
FCL20-251	251	0.250	1250							
FCL20-321	321	0.315	850							
FCL20-401	401	0.400	530							
FCL20-501	501	0.500	320							
FCL20-631	631	0.630	220							
FCL20-801	801	0.800	135							
FCL20-102	102	1.000	115							
FCL20-132	132	1.250	95							
FCL20-142	142	1.400	90							
FCL20-162	162	1.600	58							
FCL20-202	202	2.000	42							
FCL20-252	252	2.500	35							
FCL20-322	322	3.150	25	32				50	To be fused within 5 seconds when 200% of rated current applied.	-55℃~125℃
FCL20-402	402	4.000	17							
FCL20-502	502	5.000	12							

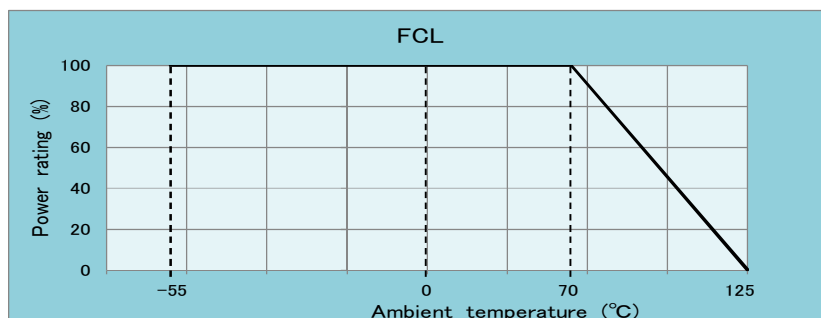
[Structure]

No.	Element Name
1	Ceramic substrate
2	Back electrode
3	Under coat
4	Fuse element I
5	Fuse element II
6	Protective coat
7	Marking
8	Side electrode
9	Ni plating
10	Sn plating



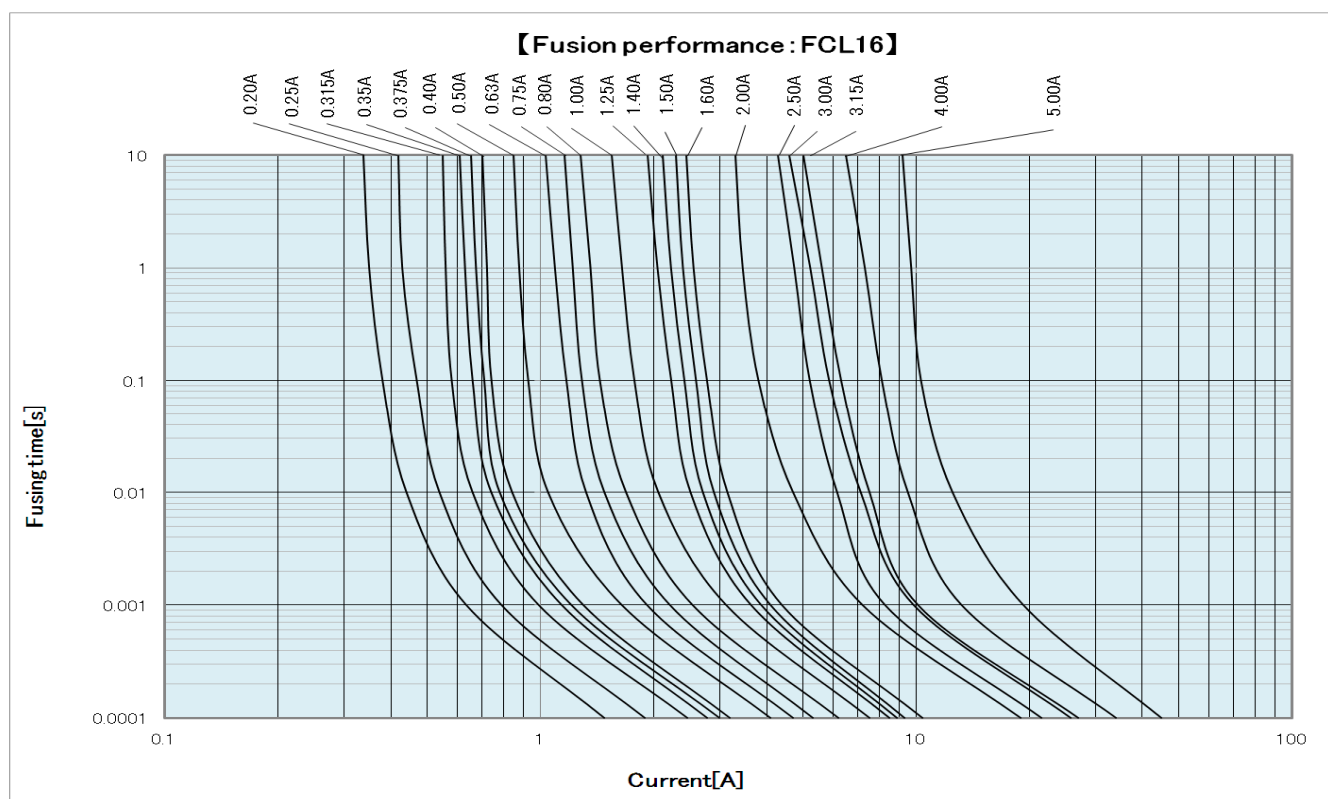
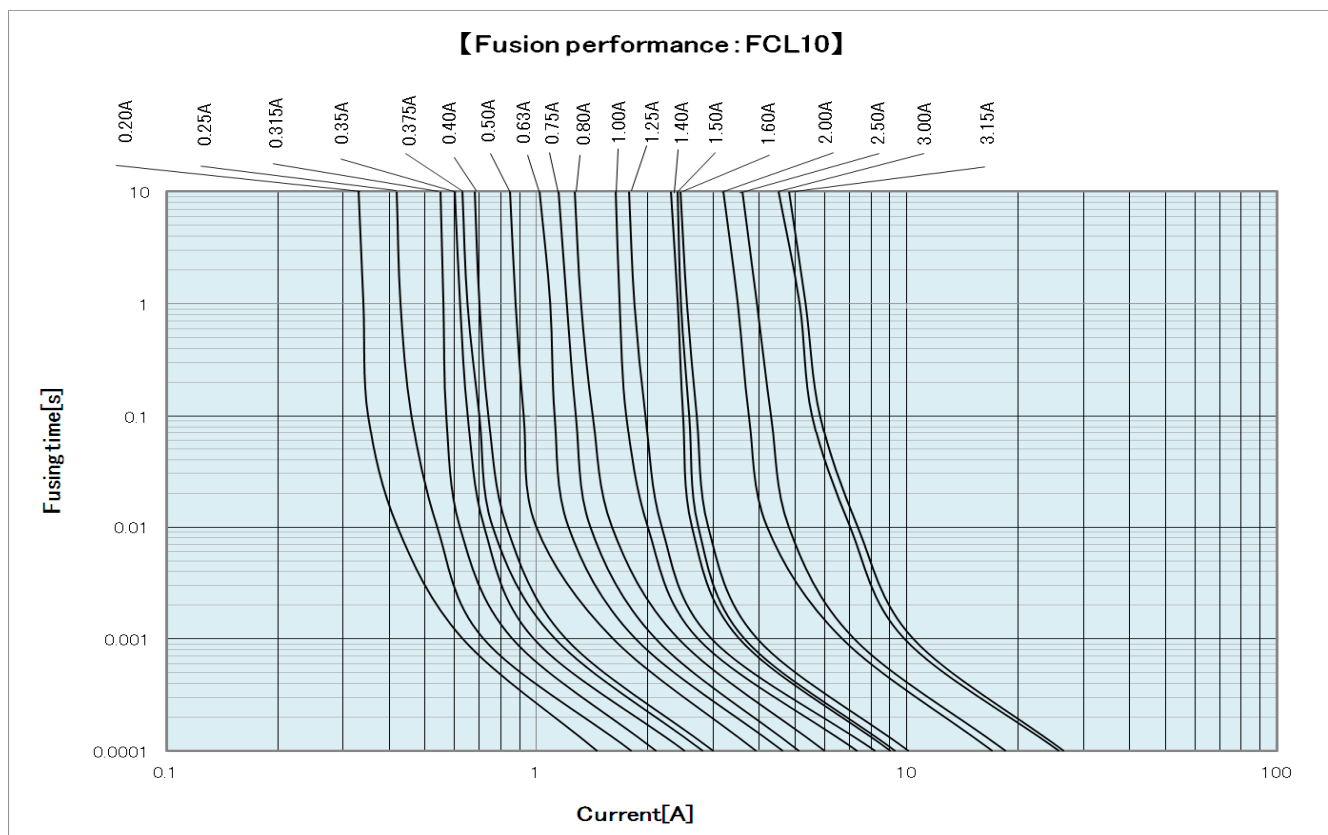
[Power rating]

■ For fuse operated in ambient temperature above 70°C, power rating must be derated in accordance with the derating curve.



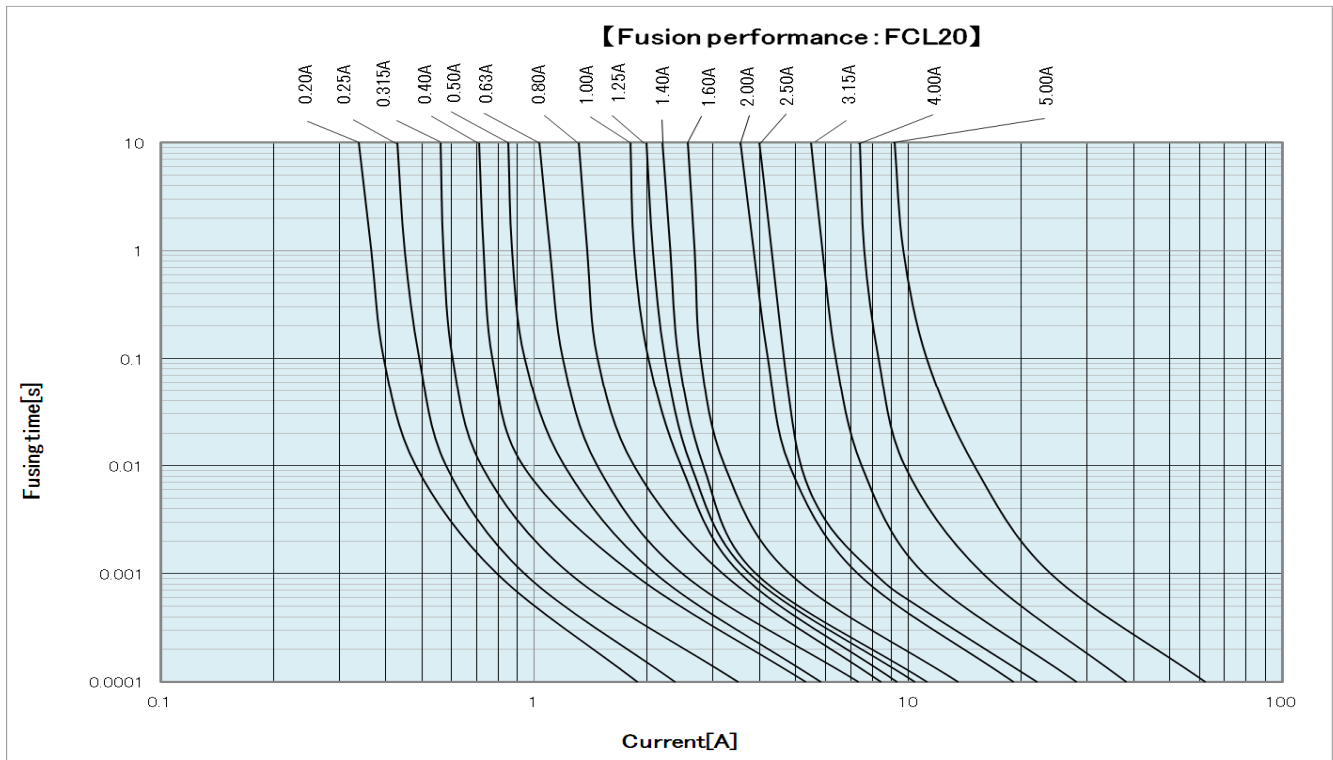
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[Fusing Characteristic]

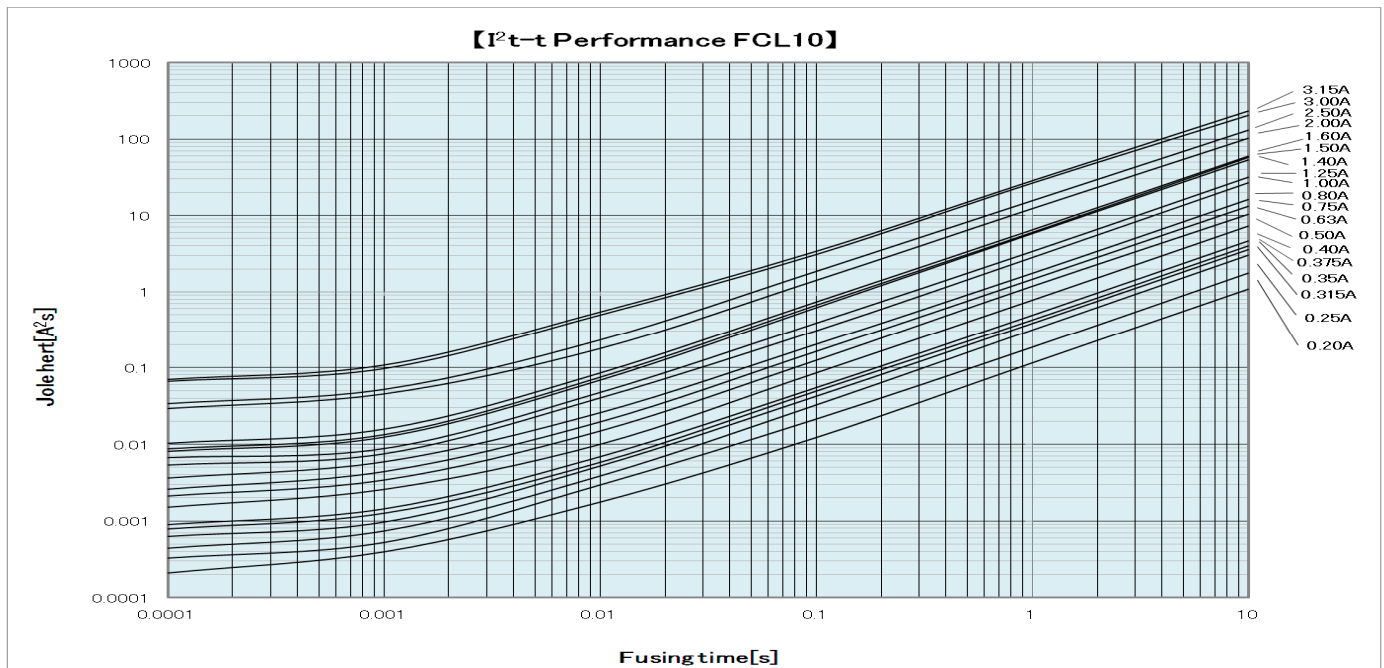


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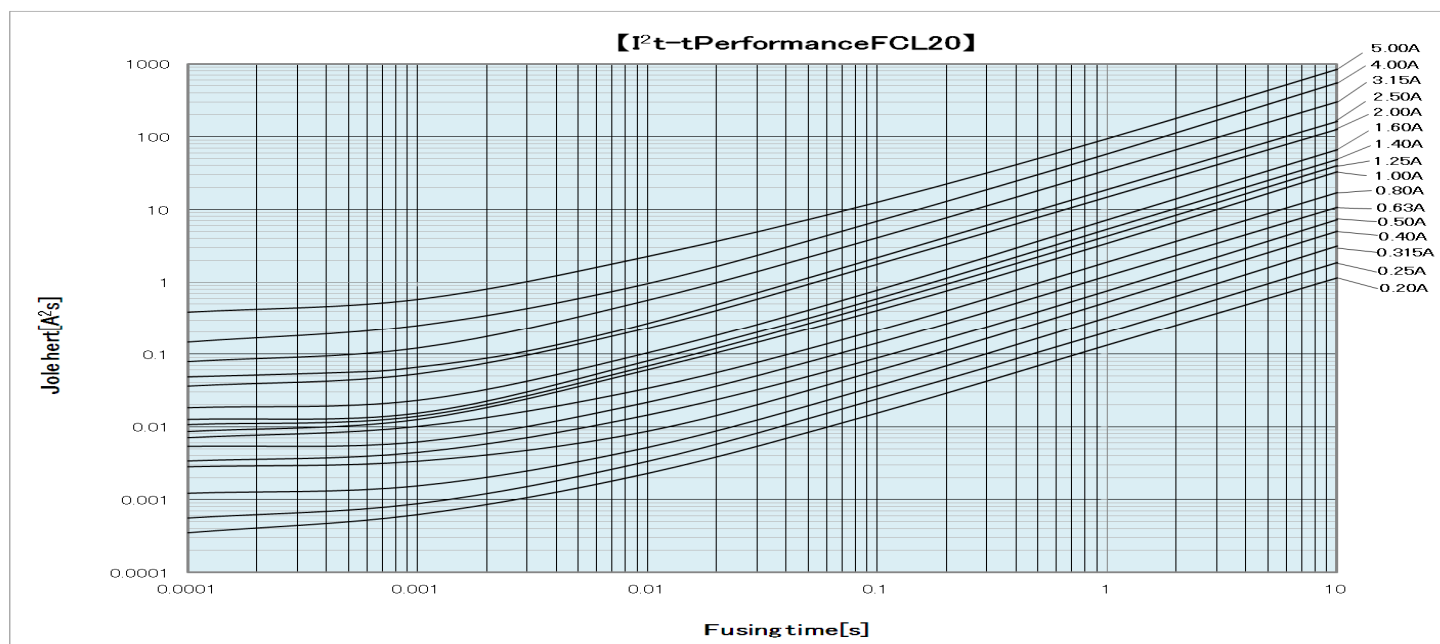
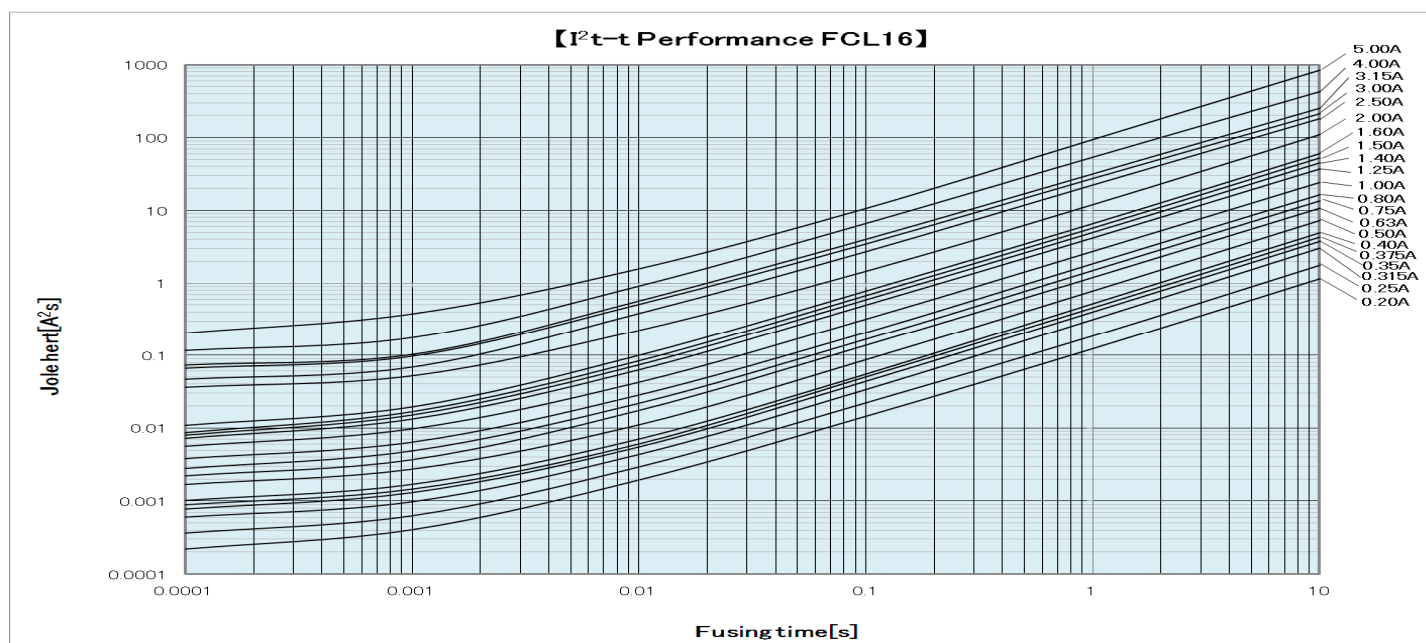
[Fusing Characteristic]



[I^2t -t characteristic]



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【Precautions for use matter】

- Please consult about use by all except for the specification indicated on this catalog beforehand.
- When using for the circuit which causes a plunge electric current, please confirm the tolerance to a plunge electric current sufficiently.
- Please don't use a fuse for the first side.
- Please confirm the ordinary use state and the special quality to the expected abnormality sufficiently.
- Of a fuse by a soldering iron, the temperature and time control install it and are inarticulate for correction, so I won't recommend you.
- Please don't assign soldering bit to a fuse terminal directly.* Please remove a mounted fuse once and don't re-apply.
- The specification indicated on this catalog is sometimes changed without notice.
- When you consider use to equipment of human life or loading and equipment with a possibility which causes enormous damage.

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