

Flat Type Chip Fuse

Hokuriku Electric Industry Co.,Ltd



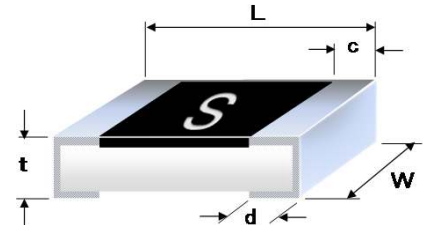
【Model No】

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】

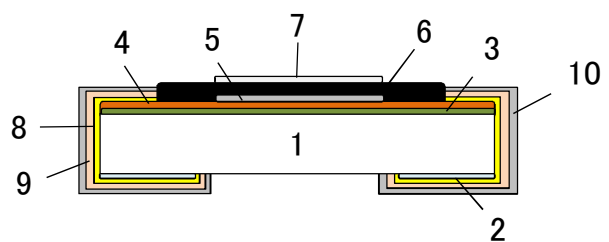
| Model No. | Marking | Rated current (A) | Internal resistance (mΩ)Max | Rated voltage (VDC) | Breaking current (A) | Fusing performance | Operating temperature range |
|-----------|---------|-------------------|-----------------------------|---------------------|----------------------|--|-----------------------------|
| FCL10-201 | C | 0.200 | 1990 | 24 | 50 | To be fused within 5 seconds when 200% of rated current applied. | -55°C~125°C |
| 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 | | | | |

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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°C~125°C |
| 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 | | | | |
| 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°C~125°C |
| 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 | | | | |
| FCL20-402 | 402 | 4.000 | 17 | | | | |
| FCL20-502 | 502 | 5.000 | 12 | | | | |

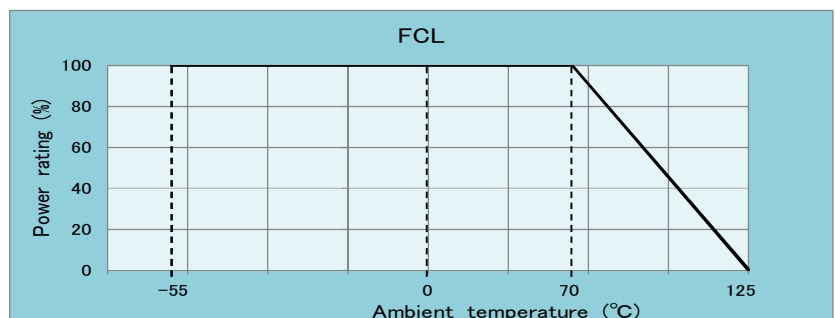
[Structure]

| 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 |



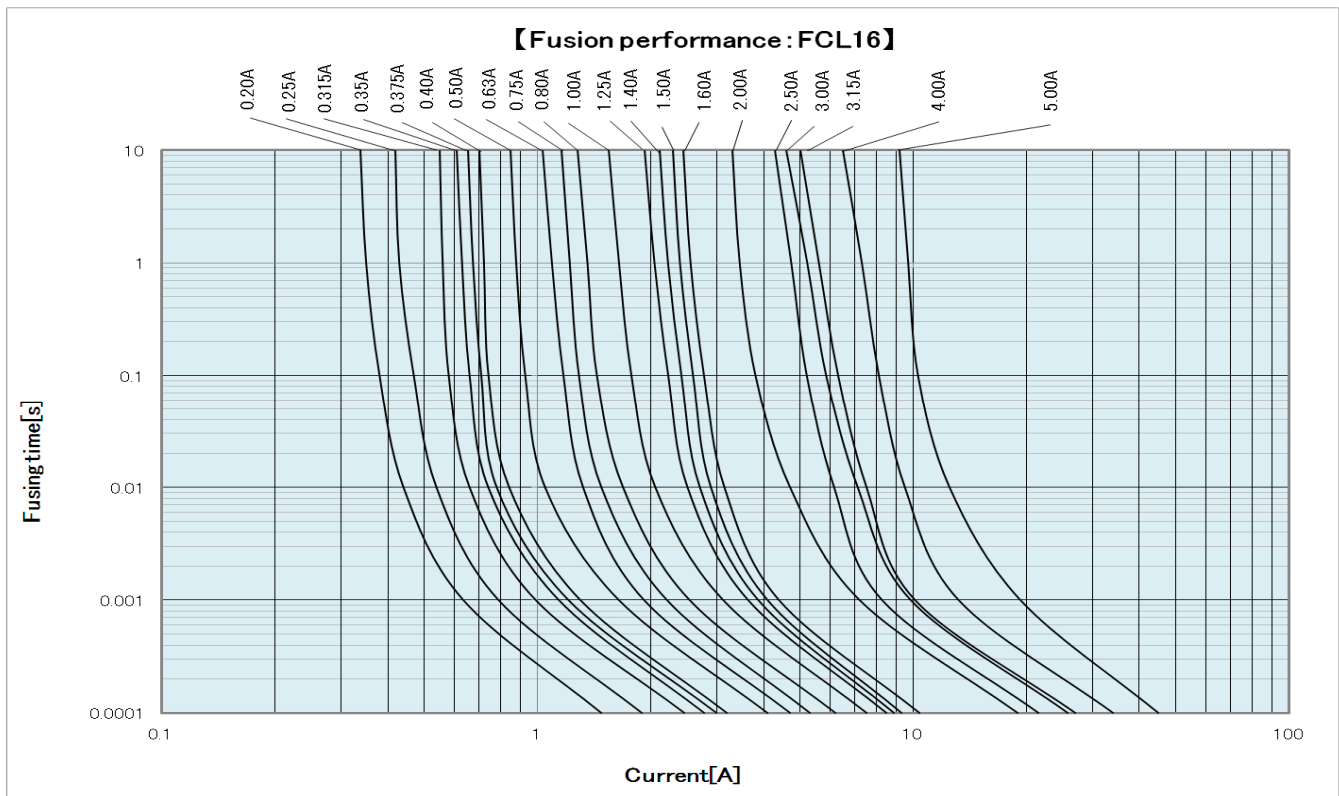
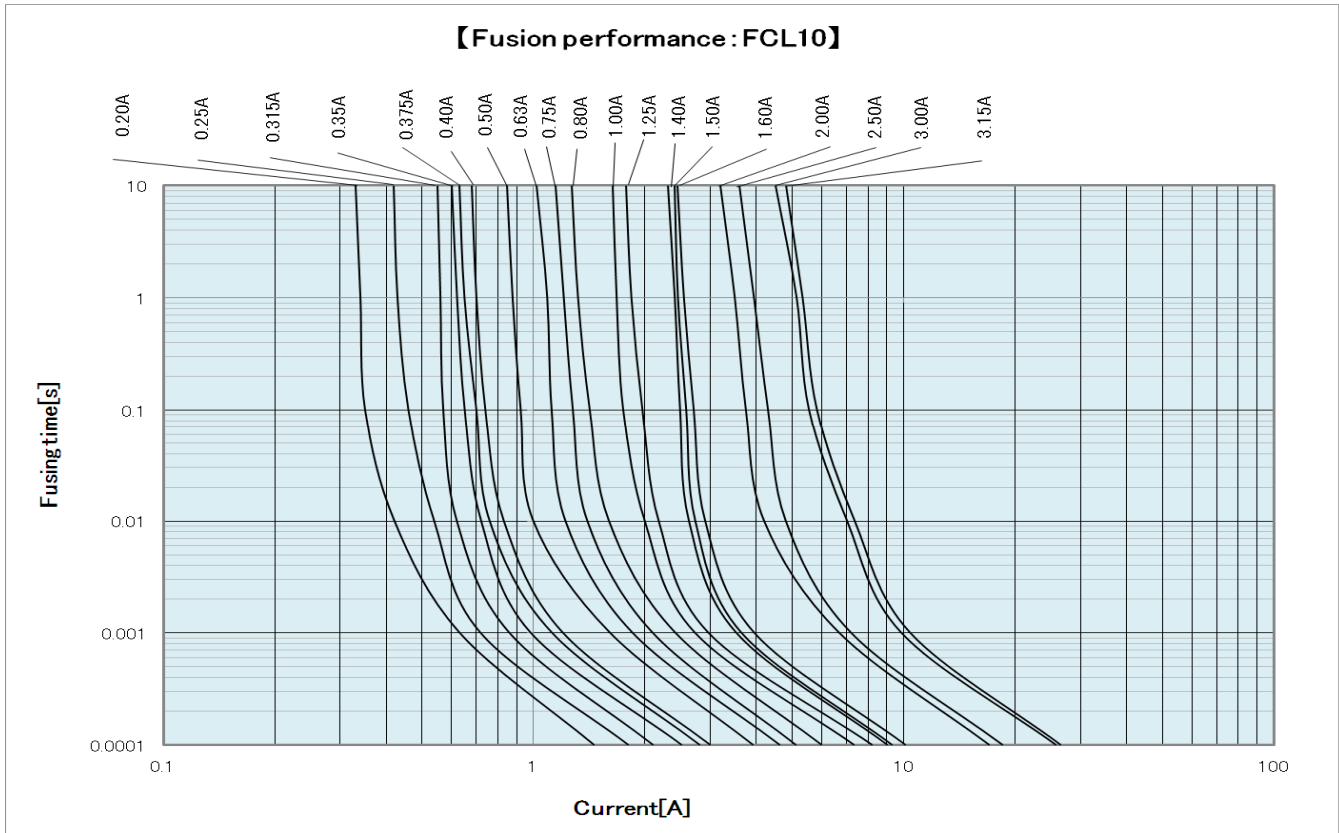
[Power rating]

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



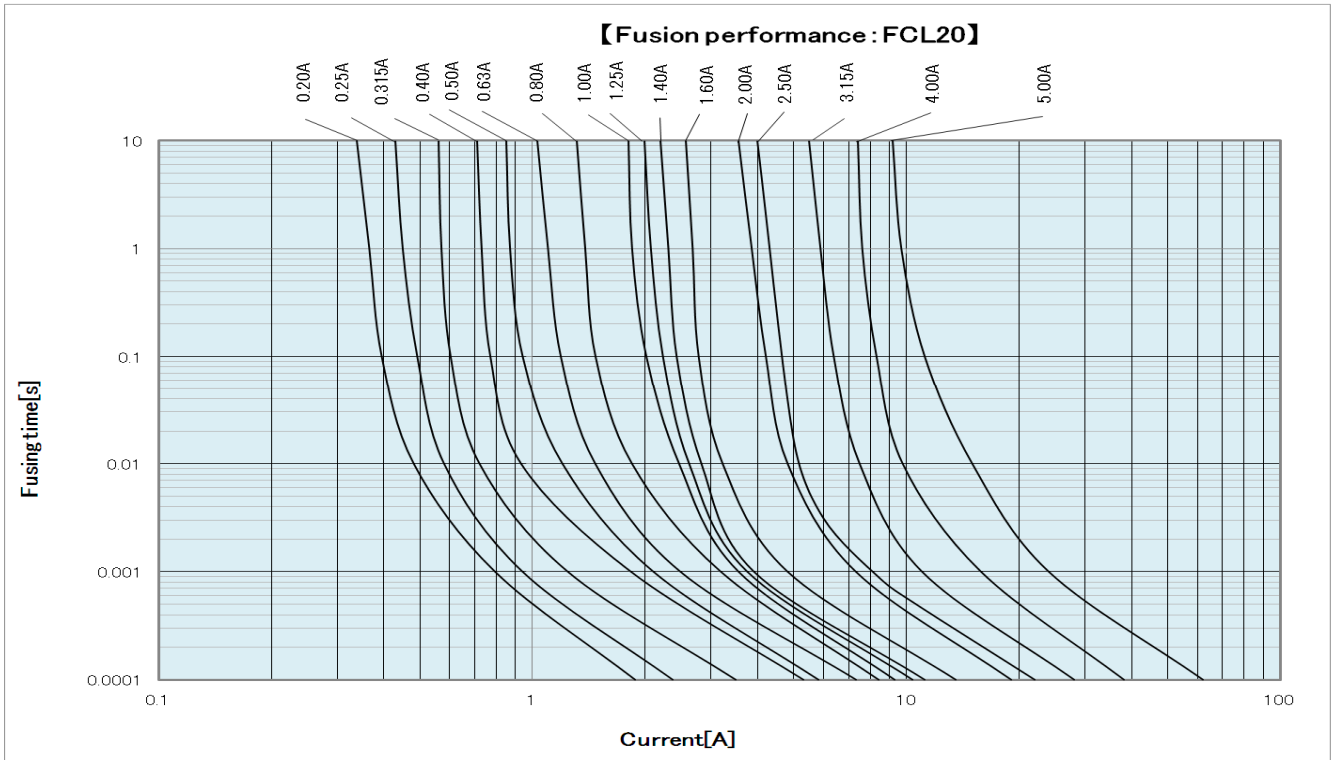
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[Fusing Characteristic]

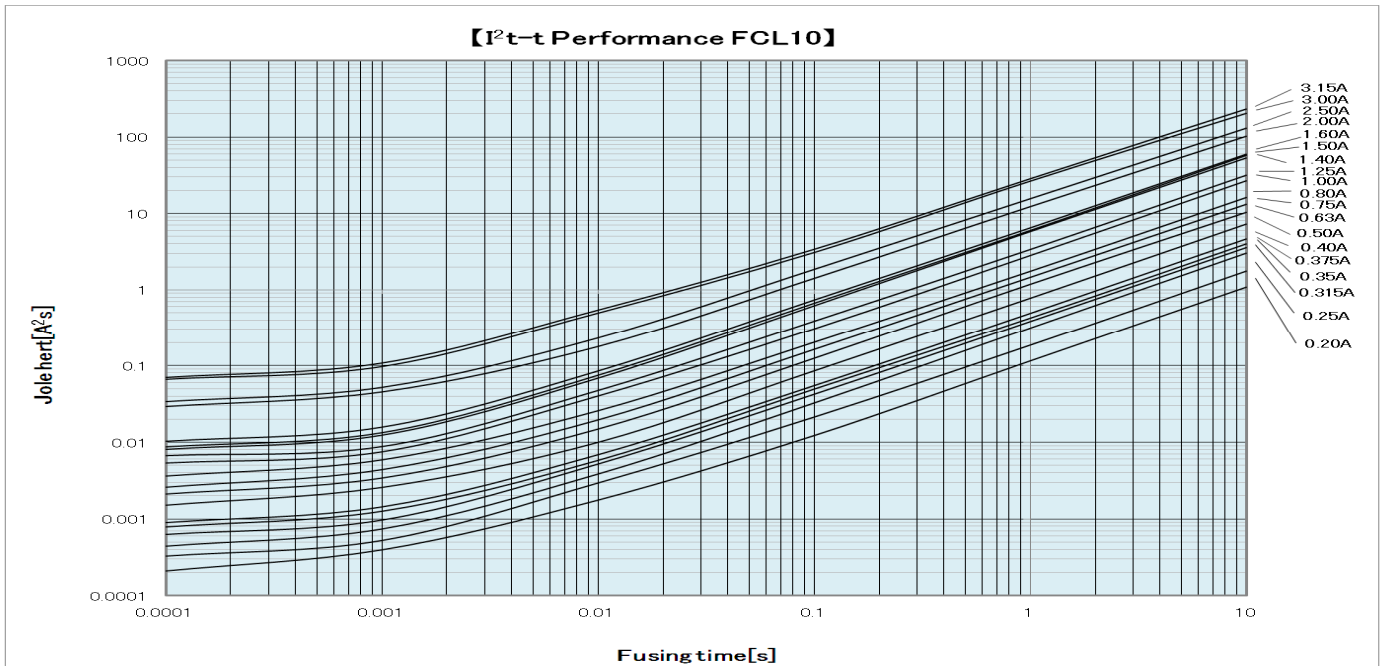


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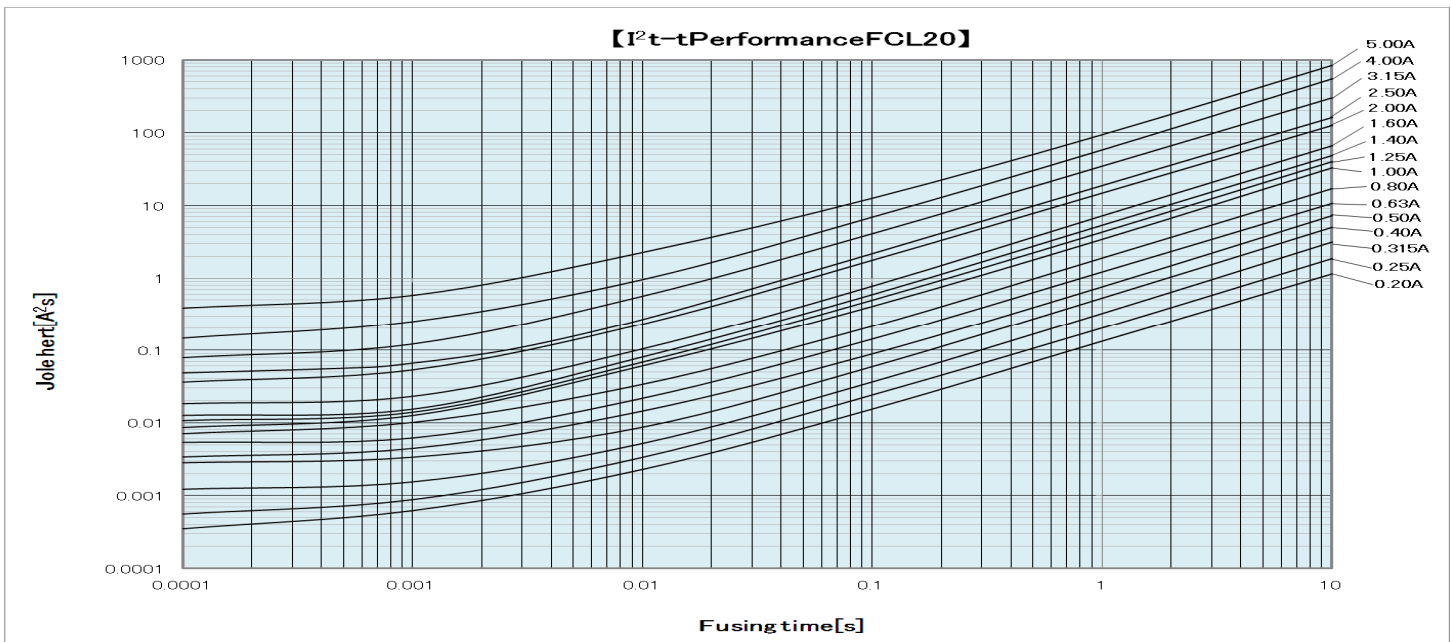
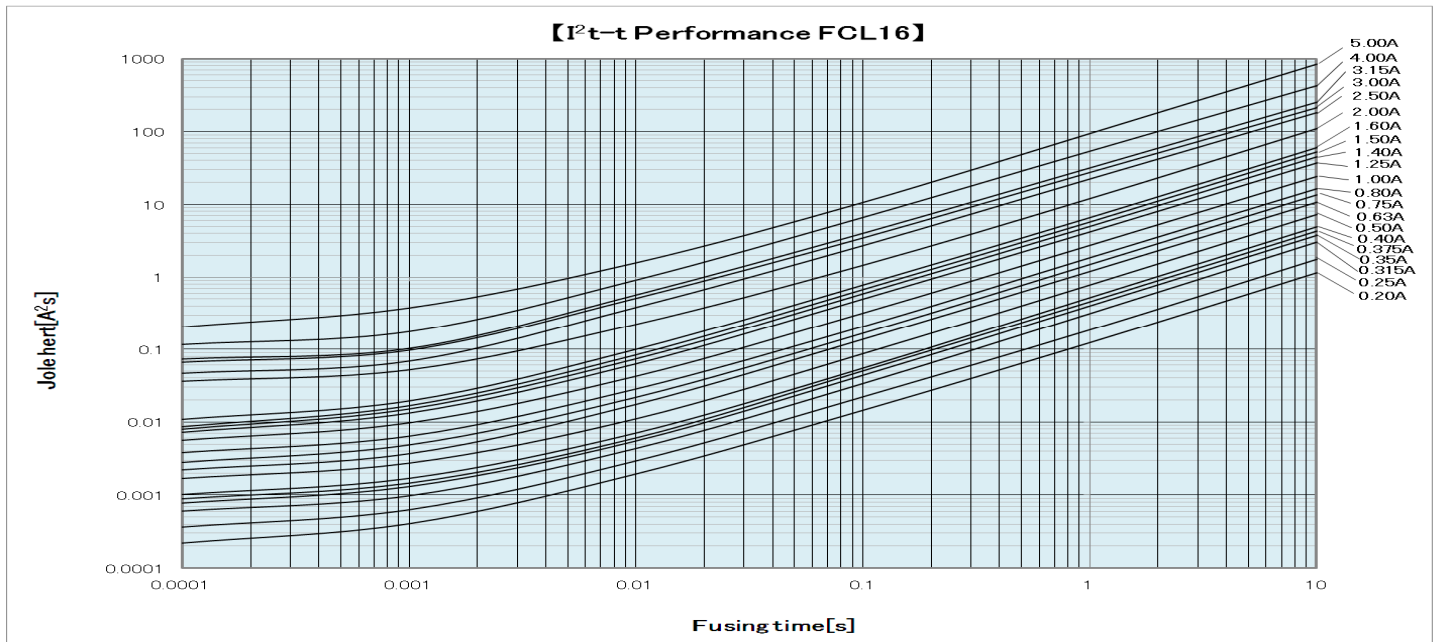
[Fusing Characteristic]



[I²t 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 of loading and equipment with a possibility which causes enormous damage.

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