

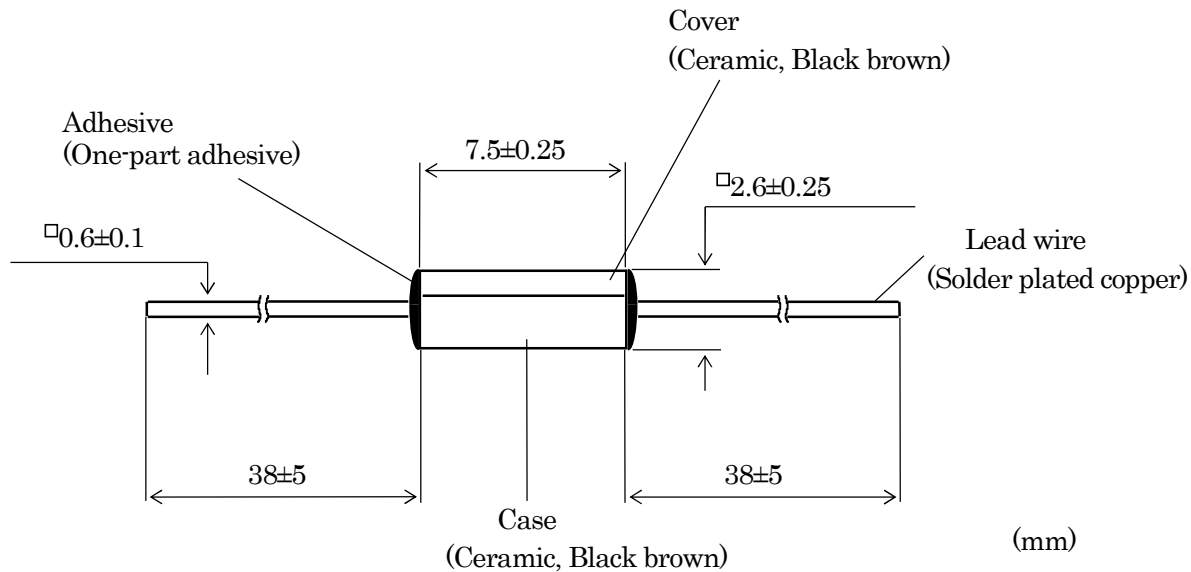
# Discontinued product

## Basic Specifications for SSFR Series

SOC product name SSFR “Rated current”

<b>Certification</b>	UL198G Recognized	Rated currents 80 mA - 10 A
	CSA C22.2 No.59.2 Certified	Rated currents 80 mA - 10 A

### Dimensions and construction



**Marking** SOC “Rated current”

### Electrical characteristics

Certification	Rated voltage	Rated breaking current		Rated current ( $I_N$ )	Temperature rise	Current carrying capacity	Overload operation
UL CSA	AC125V	50A	Resistive circuit	80mA-10A	Not more than 70 K at $1.0 I_N$	1.0 $I_N$ for not less than 15min after temperature stabilization.	Within 10 min at $1.5 I_N$ Within 60 s at $2.0 I_N$
	DC125V	300A					

### Environment-related substances

This product is not conforming to the EU RoHS Directive because lead is contained in plating on the terminal (lead wire) and solder used for this product. However, other hazardous substances (mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)) are not used intentionally in this product.

## Resistance to soldering heat

- Wave soldering

Temperature:	260 °C or less
Duration:	10 s or less
Board:	Glass fabric base epoxy resin, t=1.6, terminal hole $\phi$ 1.0 mm
Solder:	Sn-3.0Ag-0.5Cu

- Hand soldering with soldering iron

Soldering iron tip temperature:	350 °C or less
Duration:	3 s or less
Board:	Glass fabric base epoxy resin, t=1.6, terminal hole $\phi$ 1.0 mm
Solder:	Sn-3.0Ag-0.5Cu



Specifications described above are examples when facilities in our company are used.

Please make sufficient evaluations under the actual conditions in your company because the conditions may be varied depending on facilities, solder type, solder quantity, board size, and board material.

## Rated currents

Your part No.	SOC product name	Rated current
	SSFR 80mA	80mA
	SSFR 100mA	100mA
	SSFR 125mA	125mA
	SSFR 160mA	160mA
	SSFR 200mA	200mA
	SSFR 250mA	250mA
	SSFR 315mA	315mA
	SSFR 400mA	400mA
	SSFR 500mA	500mA
	SSFR 630mA	630mA
	SSFR 800mA	800mA
	SSFR 1A	1A
	SSFR 1.25A	1.25A
	SSFR 1.5A	1.5A
	SSFR 1.6A	1.6A
	SSFR 2A	2A
	SSFR 2.5A	2.5A
	SSFR 3.15A	3.15A
	SSFR 4A	4A
	SSFR 5A	5A
	SSFR 6.3A	6.3A
	SSFR 8A	8A
	SSFR 10A	10A

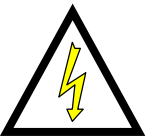


# Safety Precautions When Selecting and Using Fuses

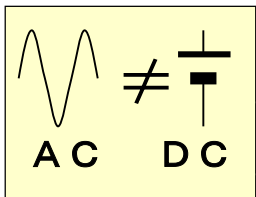
**WARNING:** Read and follow these precautions before selecting and using fuses. Failure to properly select, install, and use fuses can result in serious injury, death, or property damage. Before final fuse selection, always test the proposed fuse in your actual equipment to ensure that the fuse satisfies all your operational and safety requirements.



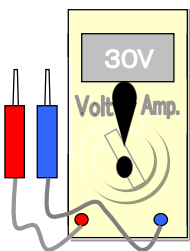
Use the fuses within the specification requirements. Exceeding specification requirements may result in injury, death, or fire.



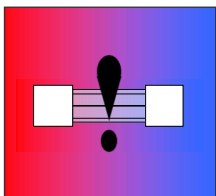
Shut down the power before touching the fuse. Failure to do so may result in electrocution or serious burns.



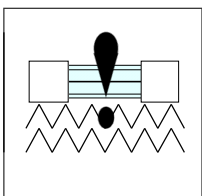
Be aware that the breaking ability of a fuse will differ depending on whether the circuit is an AC or a DC circuit. Fuses intended for use in AC circuits should therefore not be employed in DC circuits, and vice versa, as this may result in accidents such as explosions, property damage, and serious injury.



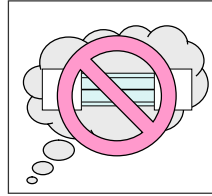
Check if the circuit voltage is large enough for fuse operation. When the circuit voltage is too small, the fuse may not operate even though the abnormal current passes through it as the current decreases due to the increase of the fuse resistance.



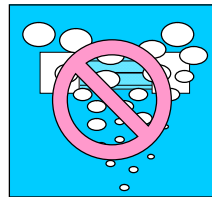
Consider the effect of the ambient temperature when you use the fuse. Electrical performance of the fuse may vary depending on the temperature.



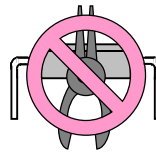
Use the fuse in a place where the vibration and impact levels are within the specified limits. Exceeding these limits may result in disconnection of the fuse-element.



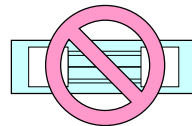
Do not use the fuse where it is exposed to high humidity, and corrosive and flammable gases. Doing so may result in nuisance operations, disconnection of the fuse-element, or explosions.



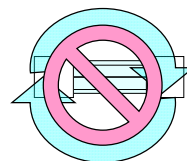
Do not apply ultrasonic cleaning to the fuse. Ultrasonic cleaning may result in disconnection of the fuse-element.



Do not form the lead when the temperature of the fuse is greater than or equal to 40 °C. Lead forming at these temperatures may result in disconnection of the fuse-element as the load is applied to it.



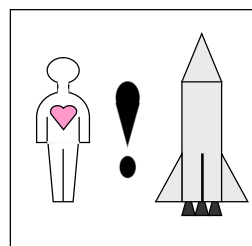
Do not apply coating or potting to the fuse. Doing so may result in disconnection of the fuse-element or a change in the fuse's characteristics.



Use sample fuses only for evaluation. Do not reuse used fuses. Properly dispose of used fuses.



When inserting a fuse into a fuseholder, avoid applying excessive force. This may result in the fuse cracking or contact failure which will significantly reduce its ability to work properly or shorten its life.



When the fuse is used for a life support system or equipment that requires high reliability, examine and evaluate the fuse in actual circuit conditions more carefully than is necessary for other general electronic equipment.

Discontinued product

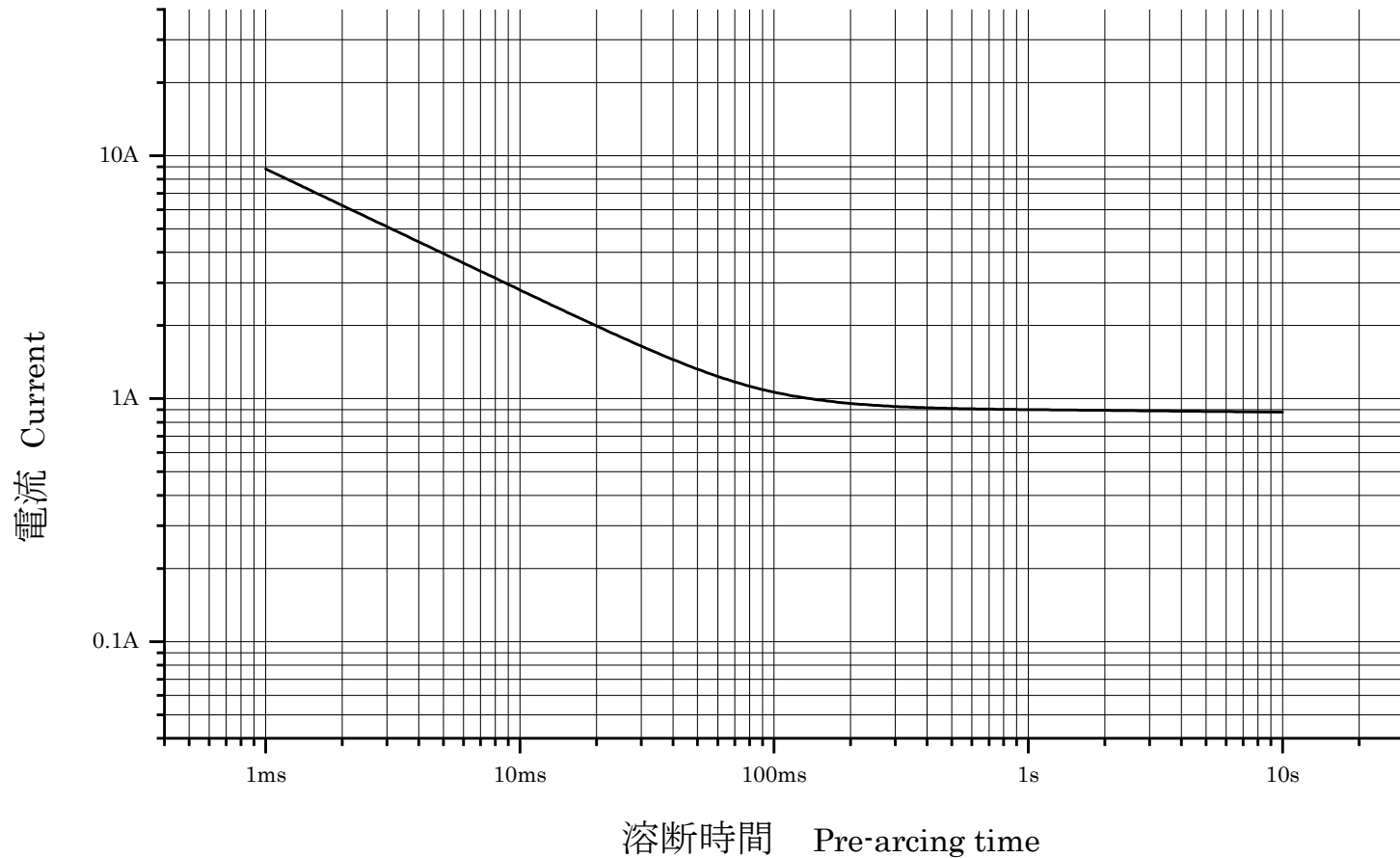
FOR REFERENCE ONLY (ご参考)

### I-t Curve

このI-t特性図は、弊社が試験条件を特定して測定した実測値の平均値だけをプロットしてあります。参考値であり保証値ではありません。  
ヒューズの特性は、その使用条件により変化しますので、お客様にヒューズのご使用条件下で、ヒューズがお客様のご要求を満足しているかを実際にご確認頂く必要があります。

This I-t curve is a plot of the average values of the measurements obtained under conditions specified by our company. These data are for reference only and are not intended to infer any guaranteed values. The characteristics of the fuse may vary depending on the usage conditions. Always test the fuse under the actual circuit conditions.

Type: SSFR 630mA  
Control No.: 050401



## Discontinued product

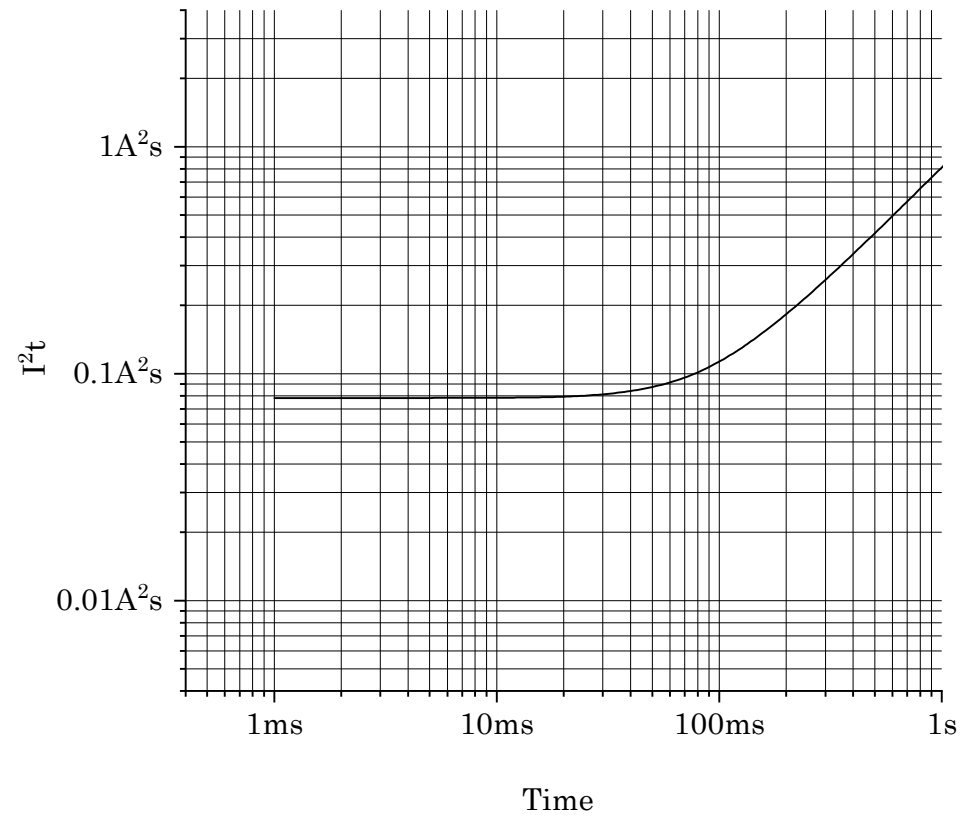
 $I^2t$  Curve

この $I^2t$ - $t$ 特性図は、弊社が試験条件を特定して測定した実測値の平均値だけをプロットしてあります。参考値であり保証値ではありません。ヒューズの特性はその使用条件により変化しますので、お客様にヒューズのご使用条件下で、ヒューズがお客様のご要求を満足しているかを実際にご確認頂く必要があります。

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Type: SSFR 630mA

Control No.: 050401



Discontinued product

FOR REFERENCE ONLY (ご参考)

## 周囲温度の影響－定格電流値のリレーティング

### Influence of Ambient Temperature - The Re-rating of the Rated Current

この周囲温度に対する定格電流の変化を示すグラフは、周囲温度 $-20^{\circ}\text{C}$ 、 $25^{\circ}\text{C}$ 及び $85^{\circ}\text{C}$ に於いて弊社が特定した条件で測定した3点の実測値であり、お客様での実使用条件を考慮したものではありません。ヒューズの特性はその使用条件により変化しますので、お客様にヒューズのご使用条件下で、ヒューズがお客様のご要求を満足しているかを実際にご確認頂く必要があります。

This chart is a plot of the measurements obtained at the ambient temperatures of  $-20^{\circ}\text{C}$ ,  $25^{\circ}\text{C}$  and  $85^{\circ}\text{C}$  under conditions specified by SOC. The conditions of your actual application are not considered in this chart. These data are for reference purposes only and are not intended to infer any guaranteed values. Fuse characteristics may vary depending on the usage conditions. Always test the fuse under the actual circuit conditions.

Type: SSFR 630mA

Control No.: 100726

