

## 5x20mm Glass Fast Acting Cartridge Fuses



### DESCRIPTION

Fast-acting 5x20mm glass fuses with low breaking capacity for use in electrical circuits. Suitable for use in a wide variety of applications. These fuses offer excellent quality and are tested for cold resistance and precise length.

### DISTINCTIVE FEATURES

- 5x20mm size
- Glass tube
- Nickel-plated brass end caps
- Fast Acting
- Low breaking capacity
- VDE approved

### APPLICATIONS

These fast acting R-TECH 5 x 20mm fuses are used to provide safety protection within an electrical circuit. With their low breaking capacity, these fuses are ideal for providing supplementary protection against harmful over-currents in electrical appliances and equipment and protection for components and circuits.

**5 x  
20mm**

**Glass**

**Fast Acting**

**250V**

**VDE**



## ELECTRICAL SPECIFICATION

IEC Compliant to	IEC 60127-2/II
Rated Voltage	250VAC
Rated Current (VDE)	see table below
Voltage Drop (Max.)	see table below
Rated Power	see table below
IEC Acceptance (See derating curves)	See graph
Protection Class	Suitable for appliances with protection class 1 or 2 acc. to IEC 61140
Contact Resistance (typical cold)	see table below
Nominal Melting I <sup>2</sup> T (A <sup>2</sup> sec)	see table below

Electrical Characteristics at 25°C

Amp Code	Rated Current	Rated Voltage	Voltage Drop Max(mV)	Max Power Dissipation (W)	Typical Cold Resistance (mΩ)	Nominal Melting I <sup>2</sup> T (A <sup>2</sup> sec)	Breaking Capacity	Approvals				
								cURus	CQC	VDE	PSE	CCC
0250	250mA	125V AC 250V AC	1400	1.6	570	0.026	10KA/125V AC 100A/250V AC	○	○	○	○	○
0315	315mA		1300	1.6	400	0.109		●	○	●	○	●
0400	400mA		1200	1.6	540	0.240		●	○	○	○	●
0500	500mA		1000	1.6	220	0.168		●	○	○	○	●
0630	630mA		650	1.6	285	0.723		●	○	●	○	●
0800	800mA		240	1.6	120	0.757		●	○	●	○	●
1100	1.00A		200	1.6	101	1.64		●	○	●	●	●
1125	1.25A		200	1.6	65.0	2.56		●	○	●	●	●
1150	1.50A		190	1.6	51.47	3.76		●	○	○	○	○
1160	1.60A		190	1.6	50.35	4.00		●	○	●	●	●
1200	2.00A		170	1.6	40.65	5.76		●	○	●	●	●
1250	2.50A		170	1.6	30.00	9.61		●	○	●	●	●
1300	3.00A		150	2.5	25.00	13.9		●	○	○	○	○
1315	3.15A		150	2.5	24.00	20.7		●	○	●	●	●
1400	4.00A		130	2.5	17.60	22.1		●	○	●	●	●
1500	5.00A		130	2.5	13.50	41.0		●	○	●	●	●
1630	6.30A		130	2.5	10.60	70.6		●	○	●	●	●
1700	7.00A		130	2.5	9.48	106		●	○	○	○	○
1800	8.00A		130	4	7.50	164		●	●	●	●	○
2100	10.00A		130	4	6.30	272		●	●	●	●	○
2125	12.50A		100	6	3.80	702		○	●	○	○	○
2160	16.00A		100	6	3.10	1332		○	●	○	○	○

Note: (1) Permissible continuous operating current is 100% at ambient temperature of 23°C (73.4°F)

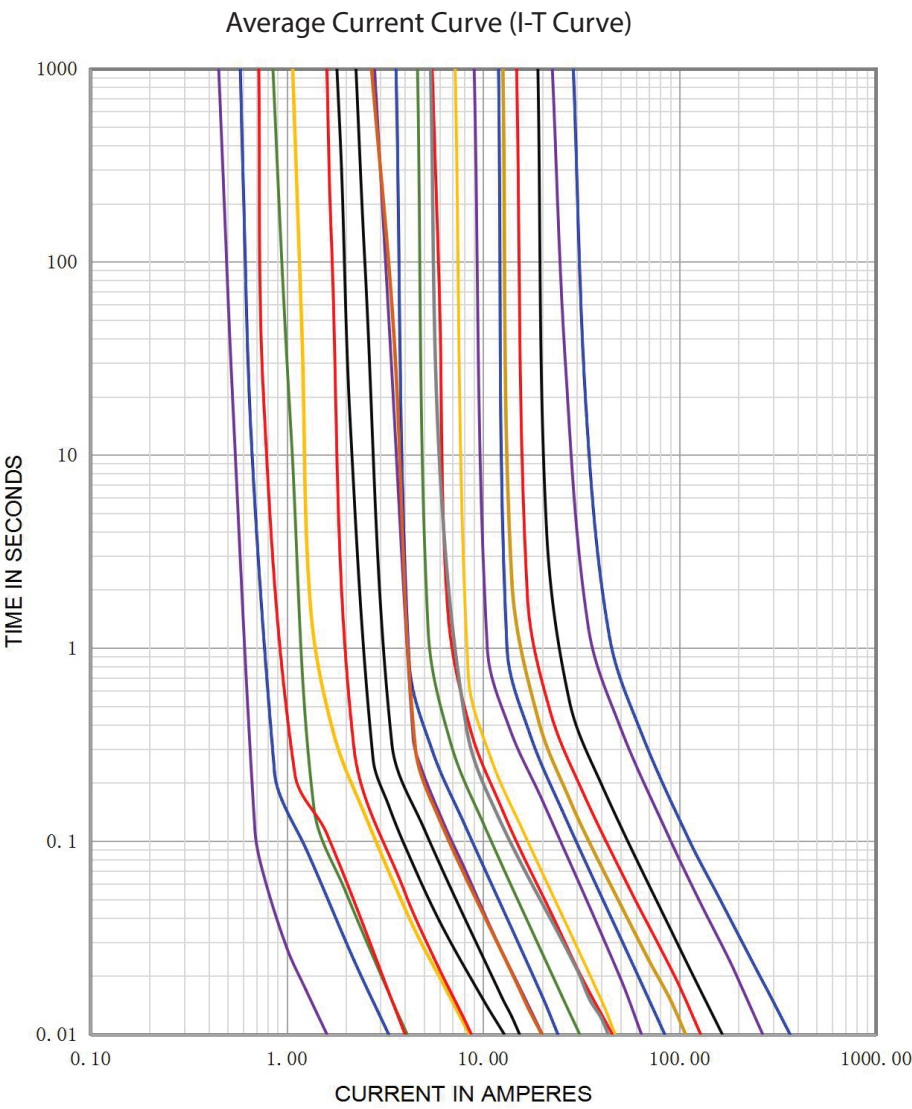
(2) The cURus certification by 125V and 250V; the VDE certification with 8A~10A by 125V and 250V; the others certification by 250V.

(3) The current values for calculating I<sup>2</sup>T should be within the standard range of 8ms - 10ms.

# Time vs Current Charactersistics Table (measured with constant curent power supply)

Time vs Current Characteristics: IEC 60127-2/ II					
Rated Current	150%	210%	275%	400%	1000%
250mA~6.3A	>1h	<30min	50ms~2s	10ms~300ms	≤20ms
8A~10A	>1h	<30min	50ms~2s	10ms~400ms	≤40ms
12.5A~16A	>30min	<30min	50ms~3s	10ms~600ms	≤80ms

## Average Time Current (I-T) Curves





## GENERAL SPECIFICATION

Series	Fuses
Type	Glass, cartridge
Fuse Action	Fast acting
Compatible Fuse Size (Diameter x Length)	5 x 20mm
Mounting Type	Fuse holder
Product Marking	Type, current, voltage, approvals



## MATERIALS

Body	Glass tube
End cap	Brass, nickel-plated



## ENVIRONMENTAL/OPERATING SPECIFICATION

Operating Temperature	-55°C to 125°C
Storage Temperature	10°C to 60°C
Storage RH	Max. 75% r.h
*Soldering Methods	Wave or Hand Soldering
*Solderability	260°C - 10sec acc. to IEC 60068-20
*Resistance to Soldering Heat	260°C/5sec (Wave soldering) 350°C/3sec (Hand soldering)
Vibration Resistance	120 cycles in 1 direction at 1min. each 10-55Hz, in X,Y,Z directions total acc. to MIL-STD-202, method 201A
RoHS	Yes
Lead-free	Yes
Halogen-free	Yes
<b>Note:</b> *Refers to lead cap types.	



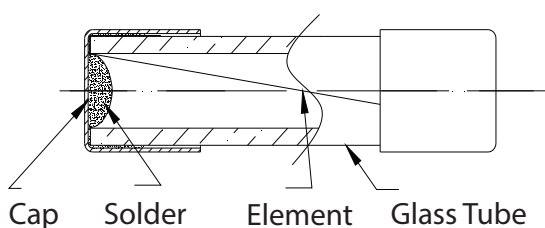
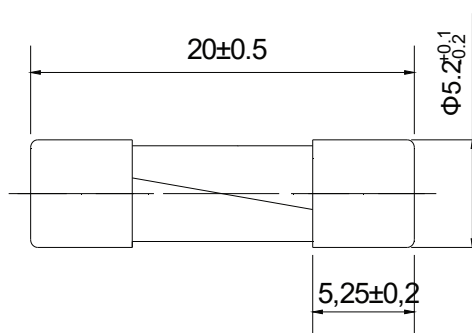
## CERTIFICATION AND STANDARDS

Approvals - VDE	40022236
Approvals - CE	-
Approvals - cURus	E300003
Approvals - CCC	2020970207000031, 2020970207000053
Approvals - PSE	PSE22022275, PSE22022273, PSE20021671, PSE22022274
Approvals - CQC	CQC07012021314, CQC160121142391
Standards - IEC	IEC 60127-2/II

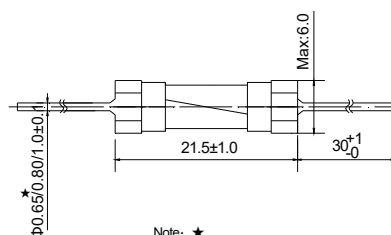
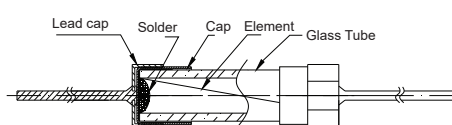


## DIMENSIONS/DRAWINGS

Units	mm - unless stated otherwise
Dimensions (Summary)	20 x ø5mm
Length	20mm
Diameter	ø5mm
Weight	0.955g



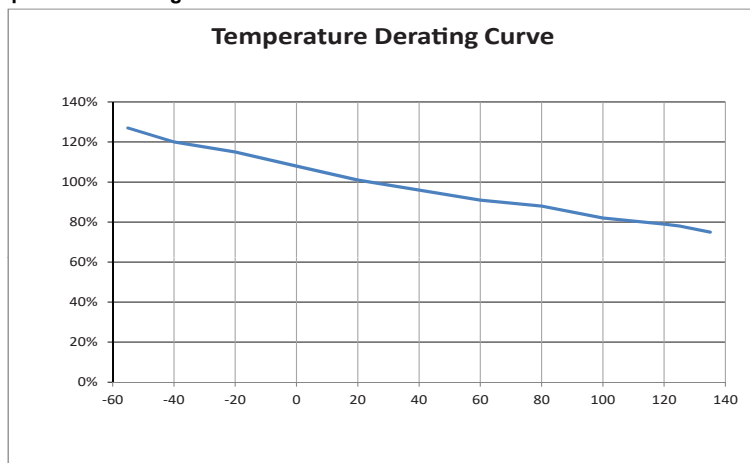
### Optional Types (with leads)



Note: ★  
 250mA~7.00A: Φ0.65mm  
 8.00A~12.50A: Φ0.80mm  
 16.00A: Φ1.00mm

Measurements are in mm  
 unless stated otherwise.

Temperature Derating Curve



Calculation for ideal fuse selection =  $\frac{\text{Operating Current (A)}}{\text{Rating (\%} \times 0.75)}$

Soldering Parameters

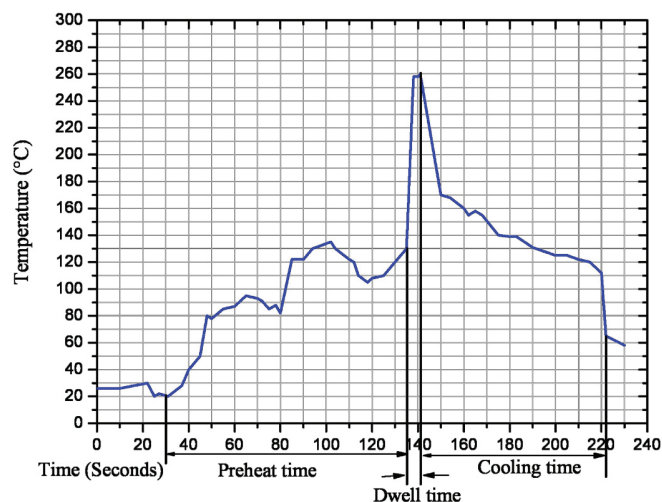
\*260°C ≤ 5 sec. (Wave Soldering)

\*350°C ≤ 3 sec. (Hand Soldering)

\*Soldering Peak:

260°C - 10 sec. (IEC 60068-20)

**Note:** \*Refers to lead cap types



## OPTIONS (MOQ may apply)

Also available with leads:	Octagonal cap, diameter: 0.65mm
	Round cap, diameter: 0.65mm
	Octagonal cap, diameter: 0.8mm
	Round cap, diameter: 0.8mm
	Octagonal cap, diameter: 1.0mm
	Round cap, diameter: 1.0mm
	Special requirements, for use with winding production



## PART NUMBER TABLE

Part Number Table	Current Rating	UNSPSC	EAN	Country of Origin
<b>26-0040</b>	315mA	39121607	5053556012206	China
<b>26-0041</b>	400mA	39121607	5053556012213	China
<b>26-0042</b>	500mA	39121607	5053556012220	China
<b>26-0043</b>	630mA	39121607	5053556012237	China
<b>26-0044</b>	800mA	39121607	5053556012244	China
<b>26-0045</b>	1A	39121607	5053556012251	China
<b>26-0046</b>	1.2A	39121607	5053556012268	China
<b>26-0047</b>	1.5A	39121607	5053556012275	China
<b>26-0048</b>	1.6A	39121607	5053556012282	China
<b>26-0049</b>	2A	39121607	5053556012299	China
<b>26-0050</b>	2.5A	39121607	5053556012305	China
<b>26-0051</b>	3A	39121607	5053556012312	China
<b>26-0052</b>	3.15A	39121607	5053556012329	China
<b>26-0053</b>	4A	39121607	5053556012336	China
<b>26-0054</b>	5A	39121607	5053556012343	China
<b>26-0055</b>	6.3A	39121607	5053556012350	China
<b>26-0056</b>	7A	39121607	5053556012367	China
<b>26-0057</b>	8A	39121607	5053556012374	China
<b>26-0058</b>	10A	39121607	5053556012381	China
<b>26-0059</b>	12.5A	39121607	5053556012398	China
<b>26-0060</b>	16A	39121607	5053556012404	China



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