

# S501

## 5 mm x 20 mm Fast-acting ceramic tube fuses



### Product features

- Fast-acting high breaking capacity
- Optional axial leads available
- 5 mm x 20 mm physical size
- Ceramic tube with silver-plated (50 mA-400 mA) and nickel-plated (500 mA-10 A) endcaps.
- Designed to IEC 60127-2

### Agency information

- cURus: File E19180, Guide JDYX2, JDYX8
- CSA Component Acceptance: File 53787
- SEMKO Approval: File 413779
- VDE Approval: File 40015517
- IMQ Approval: File EB405
- CCC Approval: File 2005010207155691
- BSI Approval: File KM55676

### Ordering information

- Specify packaging, product and option code
- Ratings above 6.3 A have a 0.8 mm diameter lead
- With TR2 packaging code, lead wire length is 19.05 mm

Electrical Characteristics							
$I_n$	1.5 $I_n$ min	2.1 $I_n$ max	2.75 $I_n$		4 $I_n$		10 $I_n$
			min	max	min	max	max
50mA-4A	60 min	30 min	10 ms	2 sec	3 ms	300 ms	20 ms
5A-6.3A	60 min	30 min	10 ms	3 sec	3 ms	300 ms	20 ms
8A-10A	30 min	30 min	40 ms	20 sec	10 ms	1s	30 ms

### Specifications

Product Code	Voltage Rating Vac	Interrupting Rating at Rated Voltage (50Hz) Vac	Typical DC Cold Resistance ( $\Omega$ )*	Typical Melting $I_t^{\dagger}$ (amps)	Typical Voltage Drop (mV) $^{\ddagger}$	Agency Approvals							
						IMQ	VDE	BSI	SEMKO	cURus	CCC	MITI/JET	CSA
S501-50-R	250	1500	157.5	0.0017	9000	X	X	X	X	X	X		X
S501-63-R	250	1500	39.0	0.0005	3300					X	X		X
S501-80-R	250	1500	27.9	0.0011	2600					X			X
S501-100-R	250	1500	20.0	0.0018	2300					X			X
S501-125-R	250	1500	12.3	0.0037	1900					X			X
S501-160-R	250	1500	8.5	0.008	1600	X	X	X	X	X	X		X
S501-200-R	250	1500	6.0	0.02	1350	X	X	X	X	X	X		X
S501-250-R	250	1500	4.4	0.027	1300	X	X	X	X	X	X		X
S501-315-R	250	1500	3.3	0.01	1400	X	X	X	X	X	X		X
S501-400-R	250	1500	2.2	0.018	1200					X			X
S501-500-R	250	1500	0.460	0.038	1050	X	X	X	X	X	X		X
S501-630-R	250	1500	0.340	0.064	1200					X			X
S501-800-R	250	1500	0.245	0.097	490	X	X	X	X	X	X		X
S501-1-R	250	1500	0.231	0.146**	330		X		X	X	X	X	
S501-1.25-R	250	1500	0.176	0.313**	297				X	X	X	X	
S501-1.6-R	250	1500	0.113	0.748**	239		X		X	X	X	X	
S501-2-R	250	1500	0.073	2.0	205	X	X	X	X	X	X	X	X $\ddagger$
S501-2.5-R	250	1500	0.053	3.9	190	X	X	X	X	X	X	X	X $\ddagger$
S501-3.15-R	250	1500	0.037	8.1	160	X	X	X	X	X	X	X	X $\ddagger$
S501-4-R	250	1500	0.027	14	160	X	X	X	X	X	X	X	X $\ddagger$
S501-5-R	250	1500	0.019	25	155	X	X	X	X	X	X	X	X $\ddagger$
S501-6.3-R	250	1500	0.014	48	150	X	X	X	X	X	X		X
S501-8-R	250	1500	0.009	104	102	X	X	X	X	X			X
S501-10-R	250	1500	0.008	155	111	X	X	X	X	X			X

\* DC Cold Resistance (measured at <10% of rated current)

\*\*  $I_t^{\dagger}$  of 1A, 1.25A & 1.6A is measured at 10 $I_n$  DC

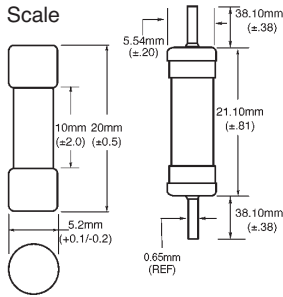
$\ddagger$  Typical Voltage Drop (voltage drop was measured at 20°C ambient temperature at rated current)

$\ddagger$  CSA approvals on these ratings will not be marked on the fuse cap

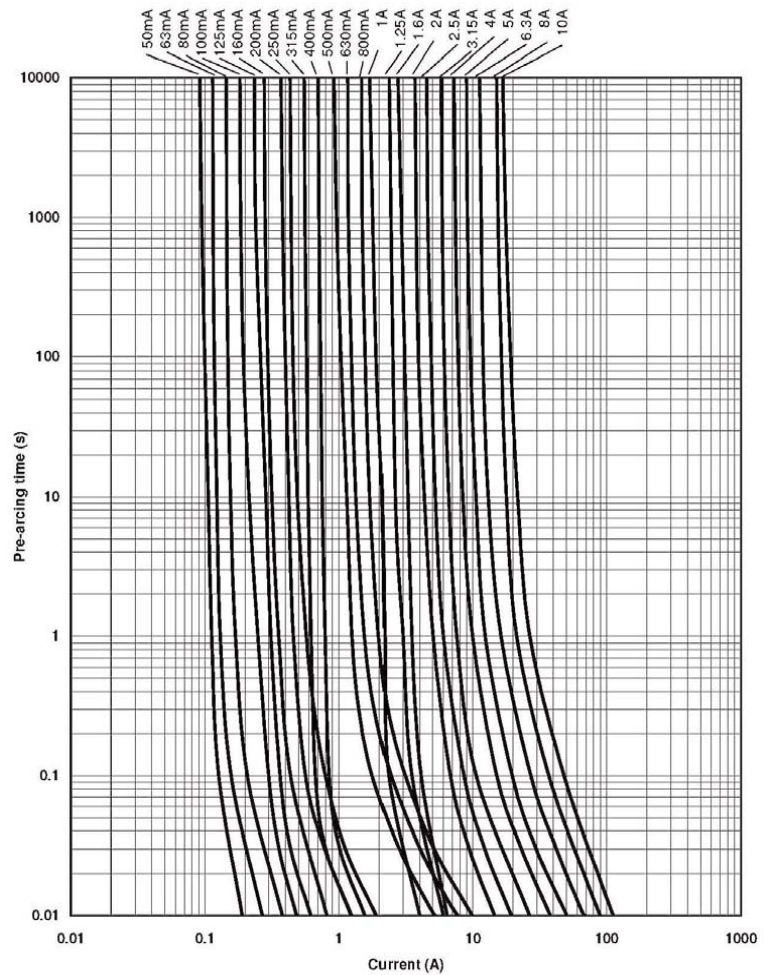


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**Dimensions - mm**  
Drawing Not to Scale



**Time - Current Curve**



Packaging Code	
Packaging Code	Description
BK	100 fuses packed into a cardboard carton
BK1	1000 fuses packed into a poly bag
TR2	1500 fuses packed into tape on a reel (19.05 mm lead wire length)

Option Code	
Option Code	Description
V	Axial leads - copper tinned wire with nickel-plated brass endcaps

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