


Description



The JDTFUSE A600 Series is designed to protect against power fault events typically found in telecom applications. This series is designed to be used in applications that need to meet the requirements of GR-1089-CORE and UL60950/EN60950/IEC60950. These resettable devices also help to meet the requirements of ITU K.20, K.21 and K.44.

Features

- 0.03 - 0.2A hold current range, 60VDC operating voltage
- 600VAC interrupt rating
- Fast time-to-trip
- Binned and sorted narrow resistance ranges available
- RoHS compliant, Lead-Free and Halogen-Free*

Agency Approvals

Agency	File Number
	E472196
	pending

Regulation	Standard
	2002/95/EC
	EN14582

Applications

Secondary overcurrent protection for:

- Central Office Equipment(CO)
- Customer Premises Equipment(CE)
- Alarm systems
- Set Top Boxes(STB)
- Voice over IP(VOIP)
- Subscriber Line Interface Circuit (SLIC)

Performance
Specification

Model	I _{hold} @25°C (A)	I _{trip} @25°C (A)	V _{max} V _{int} / V _{op}	I _{max} (A)	P _d Typ. (W)	Maximum Time To Trip		Resistance		
						Current (A)	Time (Sec)	R _{i min} (Ω)	R _{i max} (Ω)	R _{1max} (Ω)
A600-030	0.030	0.060	600/60	3.0	1.00	0.50	5.00	90.0	220.0	350.0
A600-050	0.050	0.100	600/60	3.0	1.00	0.50	5.00	15.0	90.0	350.0
A600-110	0.110	0.220	600/60	3.0	1.50	0.55	5.00	6.0	19.0	30.0
A600-150	0.150	0.300	600/60	3.0	1.50	0.75	5.00	5.0	14.0	22.0
A600-160	0.160	0.320	600/60	3.0	1.50	0.80	5.00	4.0	12.0	18.0
A600-200	0.200	0.400	600/60	3.0	1.50	1.00	10.0	5.0	13.0	24.0

I_{hold} = Hold Current. Maximum current device will not trip in 25°C still air.

I_{trip} = Trip Current. Minimum current at which the device will always trip in 25°C still air.

V_{max} = Maximum operating voltage device can withstand without damage at rated current (I_{max}).

I_{max} = Maximum fault current device can withstand without damage at rated voltage (V_{max}).

P_d = Power dissipation when device is in the tripped state in 25°C still air environment at rated voltage. R_i

_{min/max} = Minimum/Maximum device resistance prior to tripping at 25°C.

R_{1max} = Maximum device resistance is measured one hour post reflow.

CAUTION : Operation beyond the specified ratings may result in damage and possible arcing and flame.

Environmental Specifications

Test	Conditions	Resistance change
Passive aging	+85°C, 1000 hrs.	±5% typical
Humidity aging	+85°C, 85% R.H. , 168 hours	±5% typical
Thermal shock	+85°C to -40°C, 20 times	±33% typical
Resistance to solvent	MIL-STD-202, Method 215	No change
Vibration	MIL-STD-202, Method 201	No change

Ambient operating conditions : - 40 °C to +85 °C

Maximum surface temperature of the device in the tripped state is 125 °C