

# Resettable PPTC Fuse



## Features

- Broadest range of resettable devices available
- Industry's lowest internal resistance
- RoHS Compliant & Halogen Free

## Agency Approval and Environmental Compliance

Agency	File Number	Regulation
UL, C-UL	E211981	
TÜV	R50004084	

**XSR Series**

Strap Battery Devices

## Electrical Characteristics

Part Number	$I_H$	$I_T$	$T_{Trip}$	$I_{MAX}$	$V_{MAX}$	$P_{D Typ}$	$R_{MIN}$	$R1_{MAX}$
	A	A	sec/A	A	V	W	$\Omega$	$\Omega$
<b>XSR120</b>	1.20	2.70	5.0/6.00	100	15	1.2	0.085	0.220
<b>XSR175</b>	1.75	3.80	5.0/8.75	100	15	1.5	0.050	0.120
<b>XSR200</b>	2.00	4.40	4.0/10.00	100	30	1.9	0.030	0.100
<b>XSR350</b>	3.50	6.30	3.0/17.50	100	30	2.5	0.017	0.050
<b>XSR420</b>	4.20	7.60	6.0/21.00	100	30	2.9	0.012	0.040

$I_H$ =Hold current-maximum current at which the device will not trip at 23°C still air.

$I_T$ =Trip current-minimum current at which the device will always trip at 23°C still air.

$T_{trip}$ =Maximum time to trip(s) at assigned current.

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

$V_{MAX}$ =Maximum voltage device can withstand without damage at its rated current.

$P_{D Typ}$ =Typical power dissipated from device when in tripped state in 23°C still air environment.

$R_{MIN}$ =Minimum device resistance at 23°C.

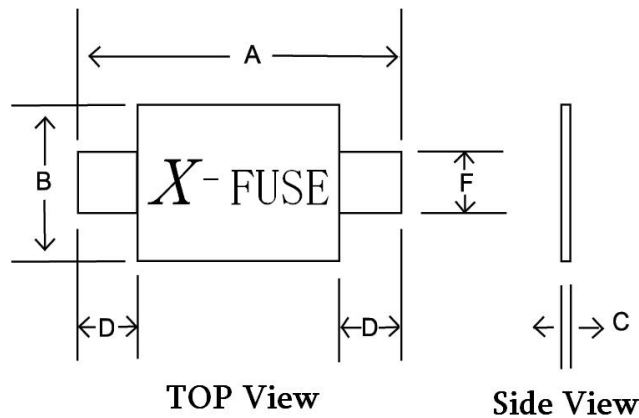
$R1_{MAX}$ =Maximum device resistance at 23°C, 1 hour after tripping.

# Resettable PPTC Fuse



## Product Dimensions (Millimeter)

Part Number	A		B		C		D		F	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
<b>XSR120</b>	19.9	22.1	4.9	5.2	0.6	1.0	5.5	7.5	3.9	4.1
<b>XSR175</b>	20.9	23.1	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1
<b>XSR200</b>	21.3	23.4	10.2	11.0	0.5	1.1	5.0	7.6	4.8	5.4
<b>XSR350</b>	28.4	31.8	13.0	13.5	0.5	1.1	6.3	8.9	5.9	6.1
<b>XSR420</b>	30.6	32.4	12.9	13.6	0.5	1.1	5.0	7.5	5.9	6.1



## Thermal Derating Chart- $I_H$ (A)

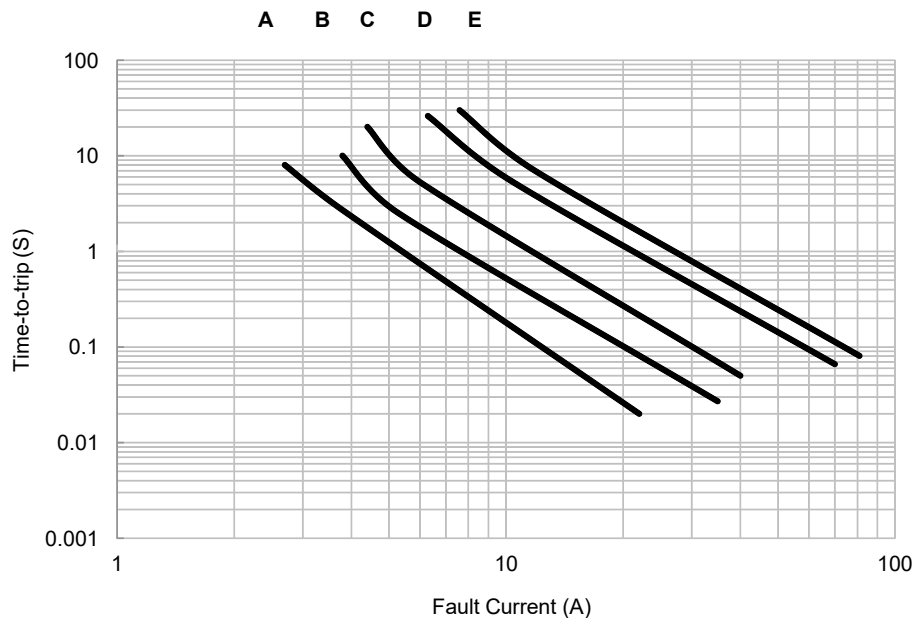
Part Number	Maximum ambient operating Temperature(°C)									
	-40	-20	0	23	30	40	50	60	70	85
<b>XSR120</b>	1.82	1.62	1.42	1.20	1.10	1.02	0.92	0.83	0.74	0.60
<b>XSR175</b>	2.66	2.36	2.07	1.75	1.61	1.49	1.35	1.21	1.09	0.88
<b>XSR200</b>	3.04	2.70	2.36	2.00	1.84	1.70	1.54	1.38	1.24	1.00
<b>XSR350</b>	5.32	4.73	4.13	3.50	3.22	2.98	2.70	2.42	2.17	1.75
<b>XSR420</b>	6.38	5.67	4.96	4.20	3.86	3.57	3.23	2.90	2.60	2.10

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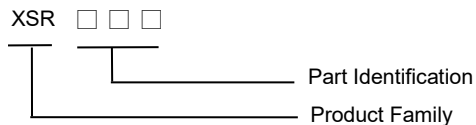


## Typical Time-To-Trip at 23 °C

- A = XSR120
- B = XSR175
- C = XSR200
- D = XSR350
- E = XSR420



## Marking System



## Package Information

### Bulk:

XSR120~XSR175-----1000pcs per bag

XSR200~XSR420-----500pcs per bag

**Caution:** Operation beyond the specified maximum ratings or misuse can result in damage and possible electrical arcing and/or flame.  
 PPTC device are designed for occasional overcurrent protection. Not for continuously overcurrent circumstance and/or prolonged trip are not anticipated.  
 Keep PPTC device away from chemical solvent contact. Prolonged contact will damage the device performance.