



# General Purpose US Fuses

## Midget Fuses (10x38 US) PC Mount PCS



### Semiconductor protection fuses for direct mounting on printed circuit boards

Ferraz Shawmut's new PCS series of extremely fast-acting, direct-mountable fuses addresses the increasing need for electrical protection at the PC board as current and voltage requirements push higher. These fuses help printed circuit board manufacturers reduce parts by eliminating clips and fuse blocks and allowing automated assembly. PCS fuses are AC and DC rated and are extremely current-limiting. They will protect semiconductors, main frame boards, circuit breakers with low interrupting rating and other critical components. PCS fuses bring I2t protection, higher voltage and interrupting ratings to the board itself and are UL Component Recognized.

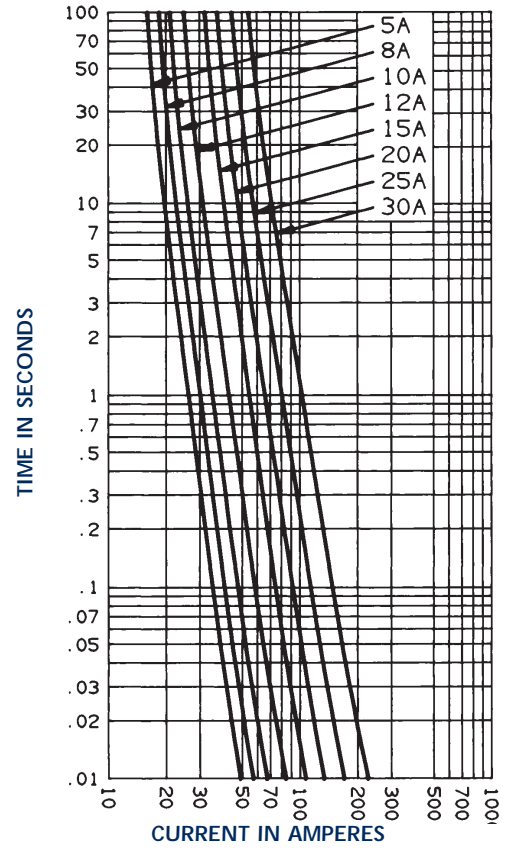
### Ratings

- AC: 5 to 30A 600VAC, 200kA I.R.
- DC: 5 to 30A 600VDC, 100kA I.R.  
L/R ≤ 10 ms

### Highlights

- Extremely Fast Acting
- PC Board Mount
- Three Mounting Styles

### Melting Time - Current Data



### Applications

- Protection of semiconductors, circuit breakers, critical components

### Approvals

- UL Recognized Components

### Standard Fuse Ampere Ratings

Ampere Rating	Catalog Number	Reference Number
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#### Slot Mount

5	PCS5-R	B217880
8	PCS8-R	M219431
10	PCS10-R	Z216337
12	PCS12-R	A217879
15	PCS15-R	L219430
20	PCS20-R	K223155
25	PCS25-R	V202027
30	PCS30-R	R212259

#### Double Hole Mount

5	PCS5-H	S217366
8	PCS8-H	Y218912
10	PCS10-H	P214304
12	PCS12-H	R217365
15	PCS15-H	X218911
20	PCS20-H	X222637
25	PCS25-H	H201487
30	PCS30-H	H211745

#### Surface Mount

5	PCS5-S	H218392
8	PCS8-S	F219954
10	PCS10-S	C216846
12	PCS12-S	G218391
15	PCS15-S	E219953
20	PCS20-S	R200943
25	PCS25-S	S211225
30	PCS30-S	D212776

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I<sup>2</sup>t at 600VDC, 100kA, L/R = 10 ms

Ampere Rating	Clearing I <sup>2</sup> t (A <sup>2</sup> s)
5	40
8	42
10	70
12	90
15	110
20	200
25	260
30	520

I<sup>2</sup>t at 600VAC, 100kA

Ampere Rating	Melting I <sup>2</sup> t (A <sup>2</sup> s)	Clearing I <sup>2</sup> t (A <sup>2</sup> s)
5	5	60
8	6.5	70
10	10	110
12	17	150
15	26	180
20	41	330
25	69	440
30	132	860

### Watts Loss Data

Ampere Rating	Watts Loss @ 80% Rating (w)	Watts Loss @ 100% Rating (w)
5	0.5	0.7
10	0.9	1.5
15	1.9	3.0
20	2.6	4.4
25	2.9	5.3
30	3.0	5.8

### Peak Let-Thru Current Data - PCS5 to 30-R, H or S, 600 Volts AC

