PCS

Semiconductor PC Mount Fuses

MIDGET, PC MOUNT & MINIATURE FUSES

SEMICONDUCTOR PROTECTION FUSES FOR DIRECT MOUNTING ON PRINTED CIRCUIT BOARDS



Mersen's PCS series of extremely fast-acting, direct-mountable fuses address 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 I^2t protection, higher voltage and interrupting ratings to the board itself and are UL Component Recognized.

CATALOG NUMBERS (AMPS)

Slot Mount	Double Hole Mount	Surface Mount
PCS5-R	PCS5-H	PCS5-S
PCS8-R	PCS8-H	PCS8-S
PCS10-R	PCS10-H	PCS10-S
PCS12-R	PCS12-H	PCS12-S
PCS15-R	PCS15-H	PCS15-S
PCS20-R	PCS20-H	PCS20-S
PCS25-R	PCS25-H	PCS25-S
PCS30-R	PCS30-H	PCS30-S
PCS35-R	PCS35-H	PCS35-S
PCS40-R	PCS40-H	PCS40-S

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
35	3.3	6.4
40	3.6	7.0

RATINGS

- **Volts:** 600VAC / DC
- **Amps:** 5 to 40A
- **I.R.:** 200kA I.R. AC; 100kA I.R. DC
- **L/R:** ≤10ms

FEATURES/BENEFITS

- Extremely fast-acting
- PC board mount
- Three mounting styles

APPLICATIONS

- Protection of semiconductors, circuit breakers, critical components

APPROVALS/STANDARDS

- UL Recognized Components File E60314

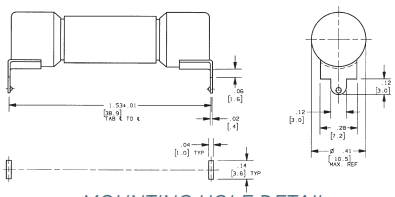
I^2T DATA, 100KA

Ampere Rating	600VAC		600VDC L/R =10ms
	Melting I^2t (A^2s)	Clearing I^2t (A^2s)	Clearing I^2t (A^2s)
5	5	60	40
8	6.5	70	42
10	10	110	70
12	17	150	90
15	26	180	110
20	41	330	200
25	69	440	260
30	132	860	520
35	197	1300	780
40	276	1800	1100

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OUTLINE DIMENSIONS

Slot Mount (Rectangular Holes)

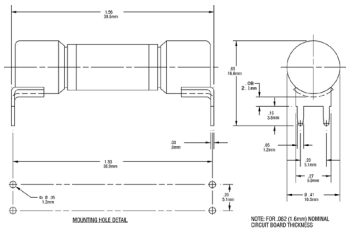


MOUNTING HOLE DETAIL

PCS5-R thru PCS40-R

*FOR .062 (1.6)
NOMINAL CIRCUIT
BOARD THICKNESS*

Double Hole Mount (Round Holes)

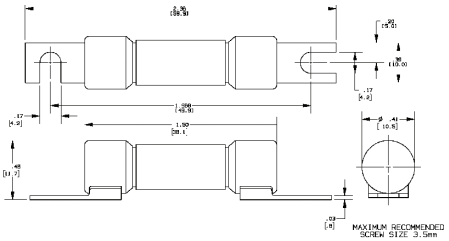


MOUNTING HOLE DETAIL

PCS5-H thru PCS40-H

*FOR .062 (1.6)
NOMINAL CIRCUIT
BOARD THICKNESS*

Surface (Screw) Mount



PCS5-S thru PCS40-S

*MAXIMUM RECOMMENDED
SCREW SIZE 3.5MM*

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