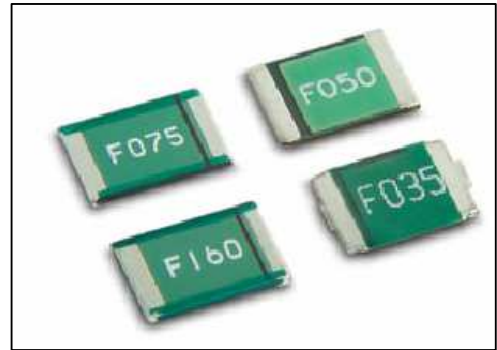




PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : SURFACE MOUNT PTC FUSE

PART NO: PSMD1812 SERIES
(REFER TABLE)



1. Summary

- (a) Application: All high-density boards
- (b) Product Features: Small Surface Mount, Solid state, Faster time to trip than standard SMD devices
Lower resistance than standard SMD devices
- (c) Operation Current: 140mA~2.0A
- (d) Maximum Voltage: 6V~60V
- (e) Temperature Range: -40°C to 85°C

2. Electrical Characteristics (23°C)

PART NUMBER	HOLD CURRENT	TRIP CURRENT	TYPICAL POWER	MAX. CURRENT	RATED VOLTAGE	MAX. TIME TO TRIP		RESISTANCE TOLERANCE	
						Current	Time	Rmin.	R1max.
	I _H , A	I _T , A	P _D , W	I _{MAX} , A	V _{MAX} , VDC	A	SEC	OHMS	OHMS
PSMD014-1812	0.14	0.30	0.8	10	60	8.0	<0.02	1.50	6.50
PSMD020-1812	0.20	0.40	0.8	10	30	8.0	0.02	0.80	5.00
PSMD035-1812	0.35	0.70	0.8	40	16	8.0	0.10	0.32	1.50
PSMD050-1812	0.50	1.00	0.8	40	16	8.0	0.15	0.15	1.00
PSMD075-1812	0.75	1.50	0.8	40	16	8.0	0.02	0.11	0.45
PSMD110-1812	1.10	2.20	0.8	40	6	8.0	0.30	0.04	0.21
PSMD150-1812	1.50	3.00	0.8	40	6	8.0	0.50	0.04	0.11
PSMD160-1812	1.60	3.20	0.8	40	6	8.0	<0.5	0.03	0.10
PSMD200-1812	2.00	3.50	0.8	40	8	8.0	2	0.02	0.07

NOTE : Specification subject to change without notice.



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IH= Hold current—maximum current at which the device will not trip at 23°C still air.
IT= Trip current—minimum current at which the device will always trip at 23°C still air.
VMAX= Maximum voltage device can withstand without damage at it's rated current (I max)
IMAX= Maximum fault current device can withstand without damage at rated voltage (V max.).
PD= Typical power dissipated—type amount of power dissipated by the device when
in the tripped state in 23°C still air environment.
RMIN= Minimum device resistance at 23°C prior to tripping.
RIMAX= Maximum device resistance at 23°C, 1 hour after tripping.
Termination pad characteristics
Termination pad materials: Tin-plated copper

3. Production Dimensions (millimeter):

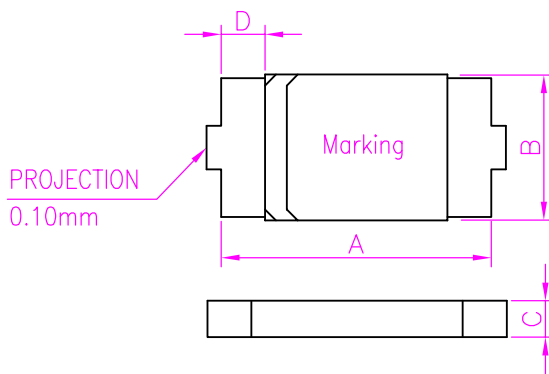


FIG-1

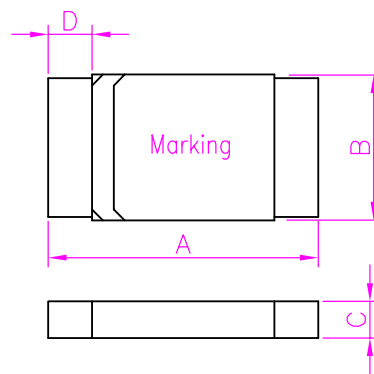


FIG-2

PART NUMBER	FIG.	A		B		C		D
		MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
PSMD014-1812	1	4.37	4.73	3.07	3.41	0.60	0.90	0.3
PSMD020-1812	1	4.37	4.73	3.07	3.41	0.60	0.90	0.3
PSMD035-1812	1	4.37	4.73	3.07	3.41	0.40	0.70	0.3
PSMD050-1812	1	4.37	4.73	3.07	3.41	0.35	0.65	0.3
PSMD075-1812	1	4.37	4.73	3.07	3.41	0.35	0.65	0.3
PSMD110-1812	1	4.37	4.73	3.07	3.41	0.25	0.55	0.3
PSMD150-1812	2	4.37	4.73	3.07	3.41	0.25	0.55	0.3
PSMD160-1812	2	4.37	4.73	3.07	3.41	0.25	0.90	0.3
PSMD200-1812	2	4.37	4.73	3.07	3.41	0.50	0.90	0.3

NOTE : Specification subject to change without notice.

A	ORIGINAL		SIDDU	12.05.2007		
REV.	DESCRIPTION			DRN. BY	DATE	CK'ED BY APP'D BY
Projection: 		Scale: NTS	Sht. Size: A4	Gen. Tol.: ±0.3mm ±2°	ALL DIMENSIONS ARE IN MM. IF UNLESS OTHERWISE SPECIFIED.	

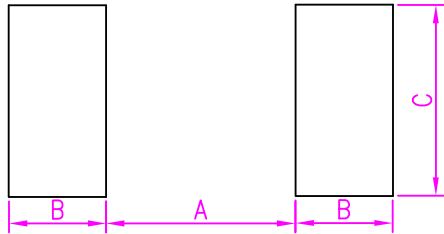


PROTECTRON ELECTROMECH (P) LTD

DESCRIPTION : SURFACE MOUNT PTC FUSE

PART NO: PSMD1812 SERIES
(REFER TABLE)

4. Pad Layouts:Solder Reflow and Rework Recommendations



PART NUMBER	A	B	C
	NOMINAL	NOMINAL	NOMINAL
PSMD014-1812	3.45	1.78	3.50
PSMD020-1812	3.45	1.78	3.50
PSMD035-1812	3.45	1.78	3.50
PSMD050-1812	3.45	1.78	3.50
PSMD075-1812	3.45	1.78	3.50
PSMD110-1812	3.45	1.78	3.50
PSMD150-1812	3.45	1.78	3.50
PSMD160-1812	3.45	1.78	3.50
PSMD200-1812	3.45	1.78	3.50

ORDERING INFORMATION

PSMD1812 SERIES
(REFER TABLE)

NOTE : Specification subject to change without notice.