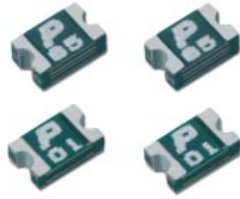


SMD1210

formerly No. 728



SMD Type, 6 / 13.2 / 30V

Approvals

cULus Recognition
TÜV

Features

This product line is designed for surface-mount applications with a range in hold currents from 50 mA to 1.5 A and voltages from 6 volts to 30 volts. These smaller devices (1210-mil footprint) are ideally suited for palm PC, PDAs and applications where space is constrained and circuit protection is required.

WebLinks

Data Sheet

www.wickmann.com/products/SMD1210.pdf

Specifications

Packaging

A Tape and reel Ø 178 mm

Materials

Terminals: Solder-plated copper
(Solder Material: 63/37 SnPb)Max. Device Surface Temperature in Tripped State
125°C

Operating / Storage Temperature

-40°C to +85°C (consider de-rating)

Humidity Ageing

+85°C, 85% R.H., 1000 hours, ± 5% typical resistance change

Vibration

MIL-VTD-883C, Method 2007.1, Condition A, no change

Thermal Shock

MIL-STD-202F, Method 107G

+85°C to -40°C 20 times, -30% typical resistance change

Lead Solderability

Meets EIA Specification RS186-9E,
ANSI/J-STD-002, Category 3

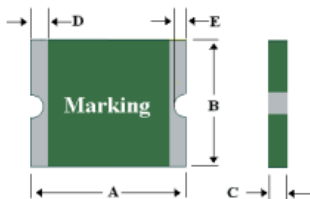
Solvent Resistance

MIL-STD-202, Method 215, no change

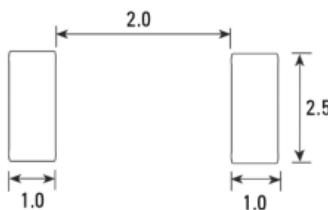
Marking

"P", Part Code, identification, lot number

Dimensions (mm)



Solder pad Layout (mm)



Dimensions (mm)

Model	A		B		C		D		E		packaging quantity tape
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
SMD1210P005TS	3.00	3.43	2.35	2.80	0.75	1.25	0.25	0.25	0.20	0.50	3,000
SMD1210P010TS	3.00	3.43	2.35	2.80	0.75	1.25	0.25	0.25	0.20	0.50	3,000
SMD1210P020TS	3.00	3.43	2.35	2.80	0.60	1.00	0.25	0.25	0.20	0.50	3,000
SMD1210P035TS	3.00	3.43	2.35	2.80	0.50	0.85	0.25	0.25	0.20	0.50	4,000
SMD1210P050TS	3.00	3.43	2.35	2.80	0.50	0.85	0.25	0.25	0.20	0.50	4,000
SMD1210P075TS	3.00	3.43	2.35	2.80	0.50	0.85	0.25	0.25	0.20	0.50	4,000
SMD1210P110TS	3.00	3.43	2.35	2.80	0.90	1.30	0.25	0.25	0.20	0.50	3,000
SMD1210P150TS	3.00	3.43	2.35	2.80	1.45	2.25	0.25	0.25	0.20	0.50	2,000

Permissible continuous operating current is ≤ 100% at ambient temperature of 20°C (68°F).

Model	I_{hold}	$V_{max, dc}$	$I_{max, (A)}$	$I_{Trip, (A)}$	max. time to trip (sec. @ A)	$P_{d, max, (W)}$	Resistance		Approvals
							$R_{min, (Ω)}$	$R_{l, max, (Ω)}$	
SMD1210P005TS	0.05A	30V	10	0.15	1.50 @ 0.25	0.6	3.600	50.000	• p
SMD1210P010TS	0.10A	30V	10	0.30	1.50 @ 0.50	0.6	1.600	15.000	• •
SMD1210P020TS	0.20A	30V	10	0.40	0.02 @ 8.00	0.6	0.800	5.000	• •
SMD1210P035TS	0.35A	6V	40	0.70	0.20 @ 8.00	0.6	0.320	1.300	• •
SMD1210P050TS	0.50A	13.2V	40	1.00	0.10 @ 8.00	0.6	0.250	0.900	• •
SMD1210P075TS	0.75A	6V	40	1.50	0.10 @ 8.00	0.6	0.130	0.400	• •
SMD1210P110TS	1.10A	6V	40	2.20	0.30 @ 8.00	0.6	0.060	0.210	• •
SMD1210P150TS	1.50A	6V	40	3.00	0.50 @ 8.00	0.8	0.040	0.110	• •

NOTE:

I_{hold} = Hold current: maximum current device will pass without tripping in 20°C still air.
 I_{Trip} = Trip current: minimum current at which the device will trip in 20°C still air.
 V_{max} = Maximum 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 dissipated from device when in the tripped state at 20°C still air. R_{min} = Minimum resistance of device in initial (un-soldered) state. $R_{l, max}$ = Maximum resistance of device at 20°C measured one hour after tripping for 20 sec.

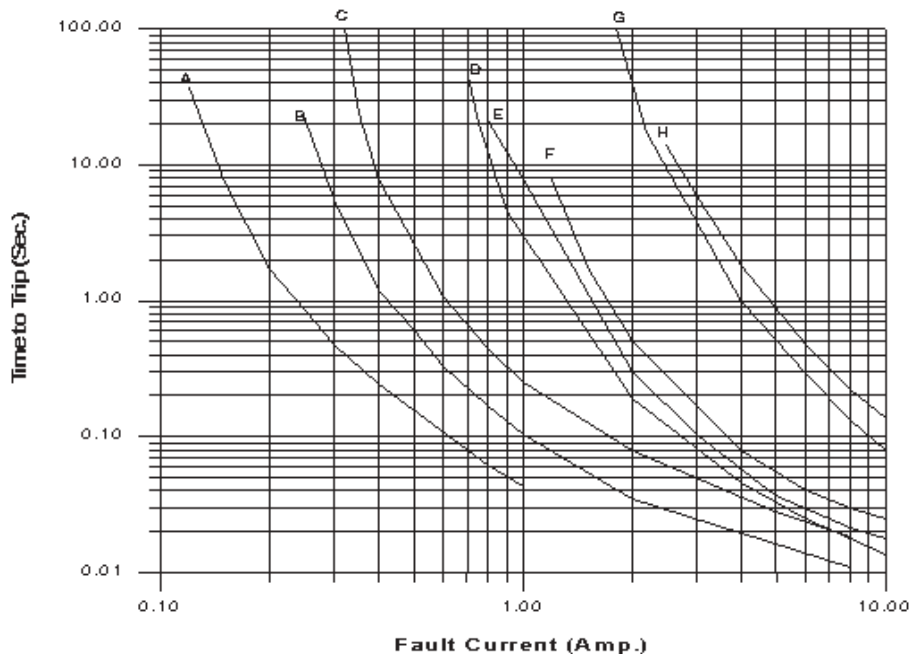
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Specifications are subject to change without notice

Order
Information

Qty.	Order- Number	Model	Packaging

SMD1210



A: SMD1210P005TS
 B: SMD1210P010TS
 C: SMD1210P020TS
 D: SMD1210P035TS
 E: SMD1210P050TS
 F: SMD1210P075TS
 G: SMD1210P110TS
 H: SMD1210P150TS

Thermal Derating Chart

Model	Ambient Operation Temperature - I_{hold} (A)								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
SMD1210P005TS	0.08	0.07	0.06	0.05	0.04	0.04	0.03	0.03	0.02
SMD1210P010TS	0.16	0.14	0.12	0.10	0.08	0.07	0.06	0.05	0.03
SMD1210P020TS	0.29	0.26	0.22	0.20	0.16	0.14	0.13	0.11	0.08
SMD1210P035TS	0.47	0.45	0.40	0.35	0.33	0.28	0.24	0.21	0.18
SMD1210P050TS	0.76	0.67	0.58	0.50	0.43	0.40	0.36	0.32	0.28
SMD1210P075TS	1.00	0.97	0.86	0.75	0.64	0.59	0.54	0.48	0.40
SMD1210P110TS	1.69	1.48	1.29	1.10	0.88	0.76	0.65	0.57	0.43
SMD1210P150TS	2.13	1.92	1.71	1.50	1.26	1.14	1.01	0.89	0.71