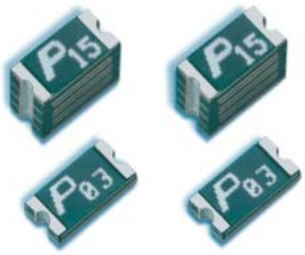
THE DATASHEET OF

SMD1206P020TSA

SMD1206

This product is not recommended for new designs. Please refer to Littelfuse No. 1206L.



SMD Type, 6 V - 30 V

Standard
UL 1434 1st Edition
CSA C22.2 No. 0 CSA TIL No. CA-3A

Approvals
cULus Recognition
TÜV

Features

This product line enables installation in limited space applications. These devices offer wide range in hold currents from 0.125 A to 1.50 A and voltages from 6 V to 30 V . The SMD1206 product line is suitable for high density circuit board applications in computers, cellular phone and general electronics.
Suitable for reflow soldering

Specifications

Packaging
A — Blistertape and reel Ø 178 mm

Materials
Terminals: Solder-plated copper
TS: Solder Material: 63/37 SnPb
TF: Lead free plating on request

Max. Device Surface Temperature in Tripped State
125 °C

Operating / Storage Temperature
-40 °C to +85 °C (consider derating)

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

Vibration
MIL-STD-883C, Method 2007.1, Condition A, no change

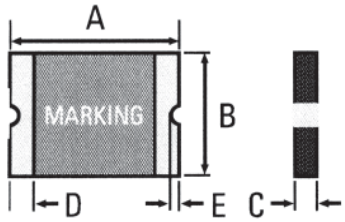
Thermal Shock
MIL-STD-202F, Method 107G
+85 °C to -40 °C 20 times, -30 % typical resistance change

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

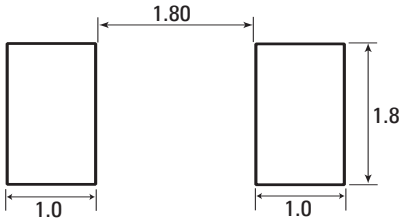
Solvent Resistance
MIL-STD-202, Method 215, no change

Marking
"P", Part Code

Dimensions (mm)



Solder pad Layout (mm)



* only type "TF"

Dimensions (mm)										
Model	A		B		C		D	E		packaging quantity
	Min	Max	Min	Max	Min	Max	Min	Min	Max	tape
SMD1206P012TS/TF	3.00	3.50	1.50	1.80	0.65	1.45	0.10	0.20	0.45	3.000
SMD1206P016TS/TF	3.00	3.50	1.50	1.80	0.65	1.45	0.10	0.20	0.45	3.000
SMD1206P020TS/TF	3.00	3.50	1.50	1.80	0.50	1.00	0.10	0.20	0.45	4.000
SMD1206P025TS/TF	3.00	3.50	1.50	1.80	0.50	1.00	0.10	0.20	0.45	4.000
SMD1206P035TS/TF	3.00	3.50	1.50	1.80	0.45	0.75	0.10	0.20	0.45	4.000
SMD1206P035TS/TF/15	3.00	3.50	1.50	1.80	0.45	0.75	0.10	0.20	0.45	4.000
SMD1206P050TS/TF	3.00	3.50	1.50	1.80	0.45	0.75	0.10	0.20	0.45	4.000
SMD1206P075TS/TF	3.00	3.50	1.50	1.80	0.45	1.25	0.10	0.20	0.45	3.000
SMD1206P100TS/TF	3.00	3.50	1.50	1.80	0.75	1.25	0.10	0.20	0.45	3.000
SMD1206P150TS/TF	3.00	3.50	1.50	1.80	1.00	1.60	0.10	0.20	0.45	2.000

Permissible continuous operating current is ≤ 100 % at ambient temperature of 20 °C (68 °F).											
Model	I_{hold} (A)	I_{Trip} (A)	$V_{max.\,dc}$ (V)	$I_{max.}$ (A)	max. time to trip (s @ A)	$P_{d\,max.}$ (W)	Resistance $R_{min.}$ ( )	$R_{typ.}$ ( )	$R_{I\,max.}$ ( )	Approvals cURus	TÜV
SMD1206P012TS/TF	0.125	0.29	30	40	0.20 @ 1.00	0.6	1.500	3.600	6.000	•	•
SMD1206P016TS/TF	0.160	0.37	30	40	0.30 @ 1.00	0.6	1.200	2.800	4.500	•	•
SMD1206P020TS/TF	0.200	0.40	16	40	0.05 @ 8.00	0.6	0.600	1.550	2.500	•	•
SMD1206P025TS/TF	0.250	0.50	16	40	0.08 @ 8.00	0.6	0.550	1.400	2.300	•	•
SMD1206P035TSTF	0.350	0.75	6	40	0.10 @ 8.00	0.6	0.300	0.750	1.200	•	•
SMD1206P035TS/TF/15	0.350	0.75	15	40	0.10 @ 8.00	0.6	0.300	0.750	1.200	•	•
SMD1206P050TS/TF	0.500	1.00	6	40	0.10 @ 8.00	0.6	0.150	0.400	0.700	•	•
SMD1206P075TS/TF	0.750	1.50	6	40	0.20 @ 8.00	0.6	0.090	0.200	0.290	•	•
SMD1206P100TS/TF	1.000	1.80	6	40	0.30 @ 8.00	0.6	0.055	0.110	0.210	•	•
SMD1206P150TS/TF	1.500	3.00	6	40	1.00 @ 8.00	0.8	0.040	0.080	0.120	•	•

Please choose TS for SnPb and TF for Sn plating

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_{Imax} = Maximum resistance of device at 20 °C measured one hour after tripping for 20 s.

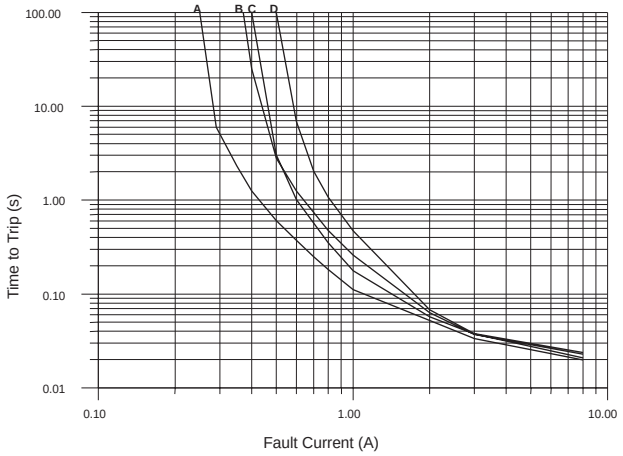
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.
Specifications are subject to change without notice

Order Information	Qty.	Order-Number	Model	Packaging

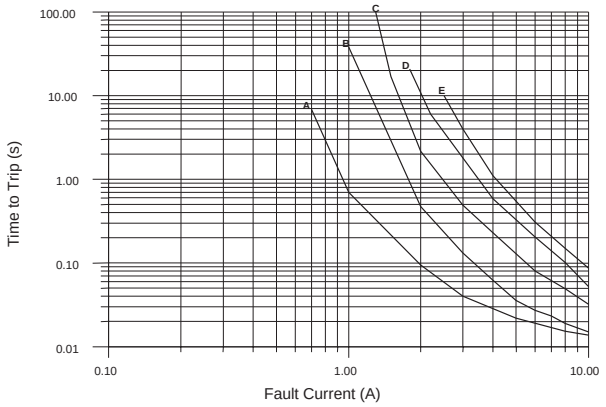
WICKMANN

In our continuing strategy to deliver unparalleled circuit protection solutions, technical expertise and application leadership, we proudly introduce the WICKMANN Group and its products to the Littelfuse portfolio.

SMD1206



A: SMD1206P012TS/TF
B: SMD1206P016TS/TF
C: SMD1206P020TS/TF
D: SMD1206P025TS/TF



A:SMD1206P035TS/TF
B:SMD1206P050TS/TF
C: SMD1206P075TS/TF
D:SMD1206P100TS/TF
E:SMD1206P150TS/TF

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
SMD1206P012TS/TF	0.18	0.16	0.14	0.125	0.10	0.09	0.08	0.07	0.05
SMD1206P016TS/TF	0.22	0.20	0.18	0.16	0.14	0.12	0.10	0.09	0.08
SMD1206P020TS/TF	0.28	0.25	0.23	0.20	0.17	0.15	0.14	0.12	0.09
SMD1206P025TS/TF	0.37	0.33	0.29	0.25	0.22	0.20	0.17	0.15	0.12
SMD1206P035TS/TF	0.50	0.45	0.40	0.35	0.30	0.27	0.24	0.21	0.15
SMD1206P035TS/TF/15	0.50	0.65	0.40	0.35	0.30	0.27	0.24	0.21	0.15
SMD1206P050TS/TF	0.71	0.64	0.57	0.50	0.42	0.39	0.35	0.31	0.25
SMD1206P075TS/TF	1.14	1.01	0.88	0.75	0.65	0.59	0.54	0.49	0.41
SMD1206P100TS/TF	1.45	1.31	1.15	1.00	0.84	0.77	0.69	0.61	0.48
SMD1206P150TS/TF	2.18	1.94	1.72	1.50	1.28	1.17	1.06	0.96	0.77

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