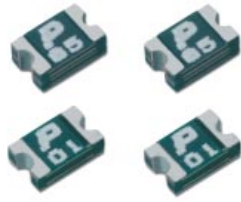


SMD2016

formerly No. 731



SMD Type, 6-60V

Approvals

cULus Recognition
TÜV

Features

These devices offer wide range in hold currents from 0.3 amps to 2.0 amps and voltages from 6 volts to 60 volts. The SMD2016 product line is suitable for high density circuit board applications in computers, telecommunications and general electronics.

WebLinks

Data Sheet

www.wickmann.com/products/SMD2016.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

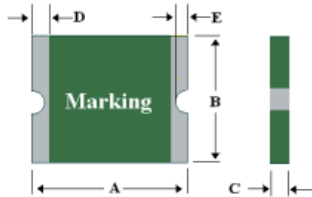
Solvent Resistance

MIL-STD-202, Method 215, no change

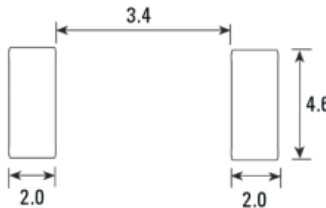
Marking

"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	
SMD2016P030TS	4.72	5.44	3.70	4.43	0.75	1.95	0.30		0.25	0.65	2,000
SMD2016P100TS	4.72	5.44	3.70	4.43	0.55	1.00	0.30		0.25	0.65	2,000
SMD2016P100TS/33	4.72	5.44	3.70	4.43	0.75	1.55	0.30		0.25	0.65	1,500
SMD2016P150TS	4.72	5.44	3.70	4.43	0.75	1.55	0.30		0.25	0.65	1,500
SMD2016P200TS	4.72	5.44	3.70	4.43	0.40	0.75	0.30		0.25	0.65	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 _{I max.} (Ω)	
SMD2016P030TS	0.30A	60V	20	0.60	3.00 @ 1.50	1.4	0.500	2.300	• p
SMD2016P100TS	1.10A	15V	40	2.20	0.50 @ 8.00	1.4	0.100	0.400	• •
SMD2016P100TS/33	1.10A	33V	40	2.20	0.50 @ 8.00	1.4	0.350	0.400	• •
SMD2016P150TS	1.50A	15V	40	3.00	1.00 @ 8.00	1.4	0.070	0.180	• •
SMD2016P200TS	2.00A	6V	40	4.20	3.00 @ 8.00	1.4	0.048	0.100	• •

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})

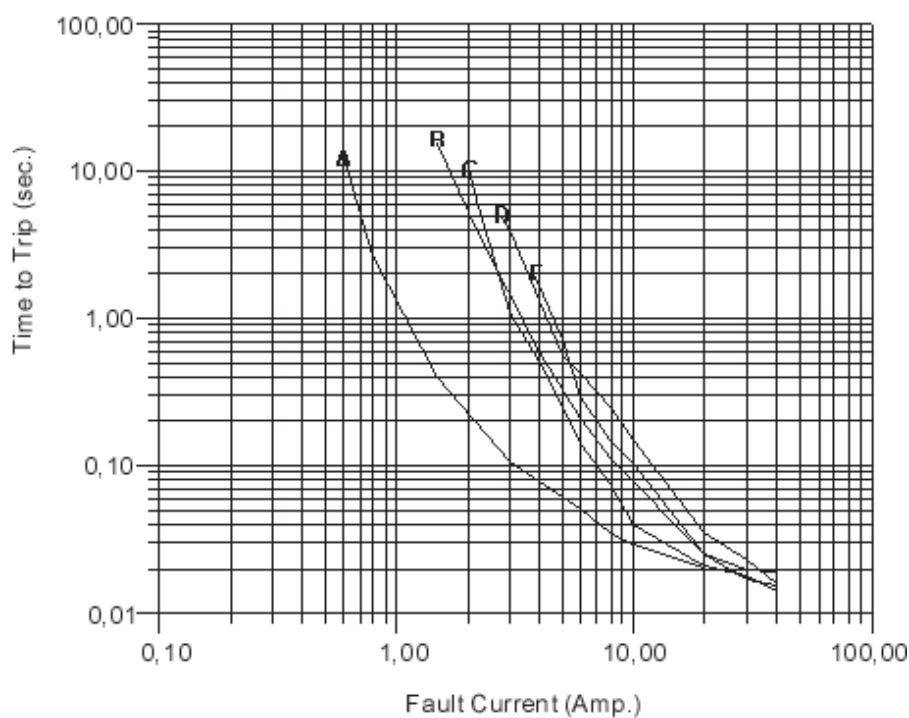
P_d = Power dissipated from device when in the tripped state at 20°C still air.R_{min} = Minimum resistance of device in initial (un-soldered) state.R_{I max} = Maximum resistance of device at 20°C measured one hour after tripping for 20 sec.

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

SMD2016



A: SMD2016P030TS
 B: SMD2016P100TS
 C: SMD2016P100TS/33
 D: SMD2016P150TS
 E: SMD2016P200TS

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
SMD2016P030TS	0.45	0.40	0.35	0.30	0.25	0.23	0.20	0.18	0.14
SMD2016P100TS	1.66	1.47	1.29	1.10	0.91	0.83	0.73	0.64	0.50
SMD2016P100TS/33	1.66	1.47	1.29	1.10	0.91	0.83	0.73	0.64	0.50
SMD2016P150TS	2.26	2.00	1.76	1.50	1.24	1.13	1.00	0.87	0.68
SMD2016P200TS	2.80	2.50	2.19	2.00	1.84	1.74	1.50	1.34	1.14