

PolySwitch femtoSMDC Device

The PolySwitch femtoSMDC device meets the continuing miniaturization demands of the electronics industry and expands Tyco Electronics' industry-leading line of circuit protection devices. The device's ultra-small footprint - measuring a mere 1.6mm x 0.8mm x 0.5mm - offers designers flexibility in space-constrained applications, and helps protect sensitive electronics from damage caused by both overcurrent and overtemperature events

The 0603 (1608mm) EIA compliant form factor device can be used in the latest generation of high frequency data ports, I/O ports and storage devices. Its resettable functionality helps improve reliability, enhance customer satisfaction and reduce warranty repair costs.

The device's small size, fast time-to-trip, and low power dissipation make it a logical and innovative solution for high-density circuit board designs. Rated at 9V, the femtoSMDC016F device provides a hold current of 0.16A, a trip current of 0.40A and a maximum resistance of 4.2Ω.

The femtoSMD device is terminated with nickel-tin finish for solderability and is compatible with high-volume assembly processes. The device is halogen-free, RoHS compliant and UL and CSA certified.



Benefits:

- Small footprint saves board space and cost
- Meets industry requirements for I/O port protection
- Compatible with high-volume electronics assembly

Features:

- Voltage rating to 9V
- Fast time-to-trip
- RoHS compliant
- Halogen Free

Applications:

- High frequency data ports
- Storage devices
- Portable electronics
- Multimedia devices
- Gaming machines
- Mobile phones
- Automotive peripherals

Electrical Characteristics at Room Temperature:

	I_H	I_T	V_{MAX}	I_{MAX}	$P_{D MAX}$	(A)	(A)	R_{MIN}	$R_{1 MAX}$
Part Number	(A)	(A)	(V _{DC})	(A)	(W)	(A)	(s)	(Ω)	(Ω)
femtoSMDC016F	0.16	0.40	9	40	0.50	1.00	0.10	1.00	4.20

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