

SMD0603 HF Series Surface Mount PTC Devices

Description

The 0603 series provides miniature surface mount resettable overcurrent protection with holding current from 10mA to 500mA. This world's smallest PTC is suitable for ultra portable applications where space is at a premium and the device current is low.

Features




- RoHS compliant and lead-free
- Halogen-free
- Compact design saves board space
- Low profile
- Fast response to fault current
- Compatible with high temperature solders





Applications

- Mobile phones and PDAs
- Portable MP3 and media player
- Mobile Internet Device (MID)
- USB peripherals
- IC VCC protection

Agency Approval and Environmental Compliance

Agency	File Number	Regulation	Standard
	E201431		2011/65/EU
	R50099121		IEC 61249-2-21:2003

Electrical Characteristics

Part Number	I _{hold} (A)	I _{trip} (A)	V _{max} (Vdc)	I _{max} (A)	P _{d typ} (W)	Maximum Time To Trip		Resistance		Agency Approval	
						Current (A)	Time (Sec.)	R _{min} (Ω)	R _{1max} (Ω)		
SMD0603P001TF	0.01	0.05	60	40	0.50	0.20	1.00	15.00	100.0	✓	✓
SMD0603P002TF	0.02	0.06	60	40	0.50	0.20	1.00	12.00	70.00	✓	✓
SMD0603P003TF	0.03	0.09	36	40	0.50	0.20	1.00	6.000	50.00	✓	✓
SMD0603P004TF	0.04	0.12	24	20	0.50	0.20	1.00	4.000	40.00	✓	✓
SMD0603P010TF	0.10	0.30	15	40	0.50	0.50	1.00	0.900	6.000	✓	✓
SMD0603P020TF	0.20	0.50	9	40	0.50	1.00	0.60	0.550	3.500	✓	✓
SMD0603P025TF	0.25	0.55	9	40	0.50	8.00	0.08	0.500	3.000	✓	✓
SMD0603P035TF	0.35	0.75	6	40	0.50	8.00	0.10	0.200	1.000	✓	✓
SMD0603P050TF	0.50	1.00	6	40	0.50	8.00	0.10	0.100	0.680	✓	✓