

Features

- Surface Mount Devices
- Lead free device
- iSurface Mount packaging for automated rassembly
- BAgency redognition:UL

Applications

Almost anywhere there is a low voltage power supply, up to DC15V and a load to be protested, including:

- Computer mother board,Modem,USB hub
- PDAs & Charger,Analog & digital line card
- Digital cameras,Disk drivers, CD-ROMs

Dimensions (mm)



Product dimensions (mm)

Model	A		B		C		D	E
	min	max	min	max	min	max	min	min
ISM010	2.00	2.2	1.2	1.5	0.50	1.0	0.2	0.1
ISM020	2.00	2.2	1.2	1.5	0.45	1.0	0.2	0.1
ISM035	2.00	2.2	1.2	1.5	0.45	1.0	0.2	0.1
ISM050	2.00	2.2	1.2	1.5	0.30	0.6	0.2	0.1
ISM075	2.00	2.2	1.2	1.5	0.40	1.0	0.2	0.1
ISM100	2.00	2.2	1.2	1.5	0.50	1.1	0.2	0.1
ISM110	2.00	2.2	1.2	1.5	0.50	1.2	0.2	0.1
ISM125	2.00	2.2	1.2	1.5	0.50	1.2	0.2	0.1

Physical Characteristics

Material:Leads

ALL	Tin plated copper,20AWG0.80mm
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Environmental Specifications

Test	conditions	Resistance change
Passive aging	+85℃,100hts	±8% typical
Humidity aging	+85℃,85%R.H.,100hrs	±8% typical
Thermal shock	+125℃,to-55℃,10times	±12% typical
Resistance to solvent	MIL-STD-202,Method 215	No change
Vibration	MIL-STD-202,Method 201	No change

Storage conditions:-40℃ to 85℃

Electrical characteristics(25°C)

Model	Ihold	Itrip	Vmax	I _{max}	Pd max	Maximum Time To Trip Current	Time	Resistance Rmin	Rmax
	(A)	(A)	(Vdc)	(A)	(w)	(A)	(S)	(Ω)	(Ω)
ISM010	0.10	0.30	15	100	0.5	0.5	1.5	1.000	6.000
ISM020	0.20	0.50	9	100	0.5	8.0	0.02	0.650	3.500
ISM035	0.35	0.75	6	100	0.5	8.0	0.1	0.250	1.200
ISM050	0.50	1.00	6	100	0.5	8.0	0.1	0.150	0.850
ISM075	0.75	1.50	6	40	0.6	8.0	0.2	0.090	0.385
ISM100	1.00	1.95	6	100	0.6	8.0	0.3	0.060	0.230
ISM110	1.10	2.20	6	100	0.6	8.0	0.3	0.060	0.210
ISM125	1.25	2.50	6	100	1.5	8.0	0.6	0.030	0.140

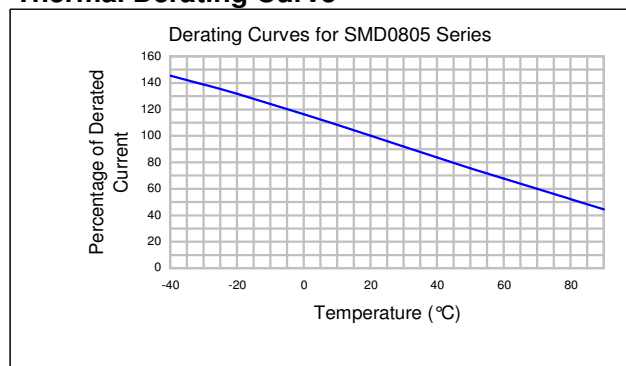
Ihold Hold Current:Maximum current device will not trip in 25°C still air.
Itrip Trip current:Minimum current at which the device will always trip in 25°C still air
Vmax Maximum operating volatge device can withstand without damage at ratde current(imax).
I_{max} Maximum fault current device can withstand without damage at rated voltage(Vmax).
Pd Typical power dissipatde from device when in the tripped state in 25°C still air.
Rmin/max Minimum/Maximum device resistance prior to tripping at 25°C.
R1max Maximum resistance of device at 25°C measured one hour after trippde tripping.

*CAUTION Operation beyond the specified rating may result in damage and possible arcing.

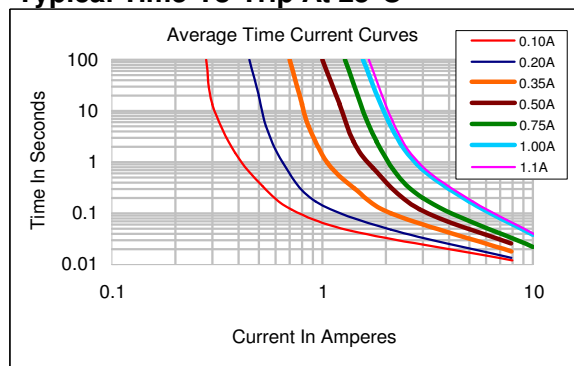
Ihold versus tempetature

Model	maximum ambient operating temperature(Tmao)vs.hold current(Ihold)								
	—40°C	—20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
ISM010	0.14	0.12	0.11	0.10	0.08	0.07	0.06	0.05	0.03
ISM020	0.28	0.25	0.23	0.20	0.17	0.14	0.12	0.10	0.07
ISM035	0.47	0.44	0.39	0.35	0.30	0.27	0.24	0.20	0.14
ISM050	0.68	0.62	0.55	0.50	0.40	0.37	0.33	0.29	0.23
ISM075	0.10	0.90	0.79	0.75	0.63	0.57	0.53	0.41	0.34
ISM100	1.35	1.25	1.15	1.00	0.82	0.74	0.65	0.55	0.42
ISM110	1.45	1.35	1.20	1.10	0.92	0.84	0.75	0.65	0.52
ISM125	1.65	1.53	1.36	1.25	1.05	0.95	0.85	0.74	0.59

Thermal Derating Curve



Typical Time-To-Trip At 25°C



Package Information

Reel:

ISM010~ISM050	5000pcs/Reel
ISM075~ISM125	4000pcs/Reel