

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 |
|-----|-------------------------------|

Environmental Specifications

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

Storage conditions:-40°C to 85°C

Electrical characteristics(25°C)

| Model | Ihold (A) | Itrip (A) | Vmax (Vdc) | Imax (A) | Pd max (w) | Maximum Time To Trip | | Resistance | |
|--------|--------------|--------------|---------------|-------------|---------------|----------------------|-------------|-------------|-------------|
| | | | | | | Current (A) | Time (S) | Rmin (Ω) | Rmax (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 |

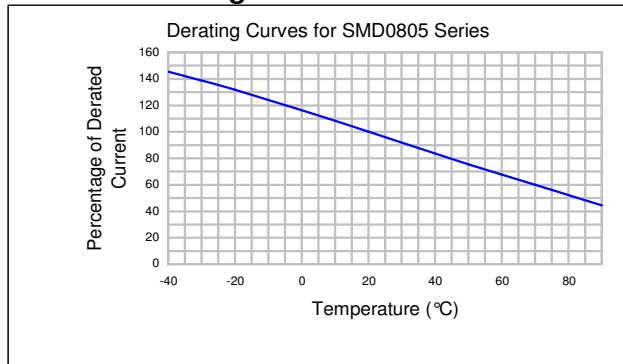
Ihold Hold Current:Maximum current device will not trip in 25°C still air.
 Itrip Trip current:Minimum current at which the device will always trip in 25°C still air
 Vmax Maximum operating volatge device can withstand without damage at ratde current(imax).
 Imax Maximum fault current device can withstand 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.

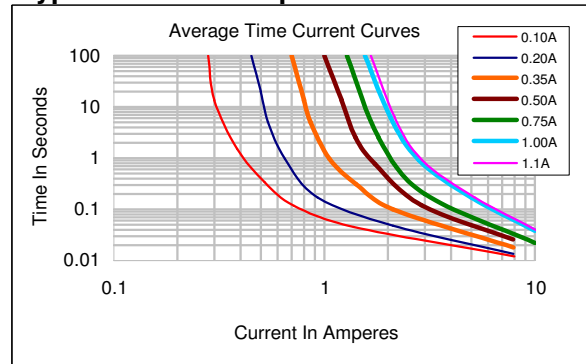
Ihold versus tempetature

| 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 |