

●SOT-89 Power Dissipation

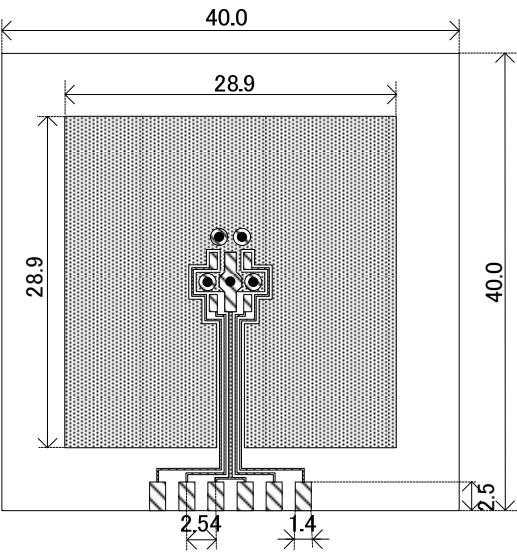
Power dissipation data for the SOT-89 is shown in this page.

The value of power dissipation varies with the mount board conditions.

Please use this data as one of reference data taken in the described condition.

1. Measurement Condition (Reference data)

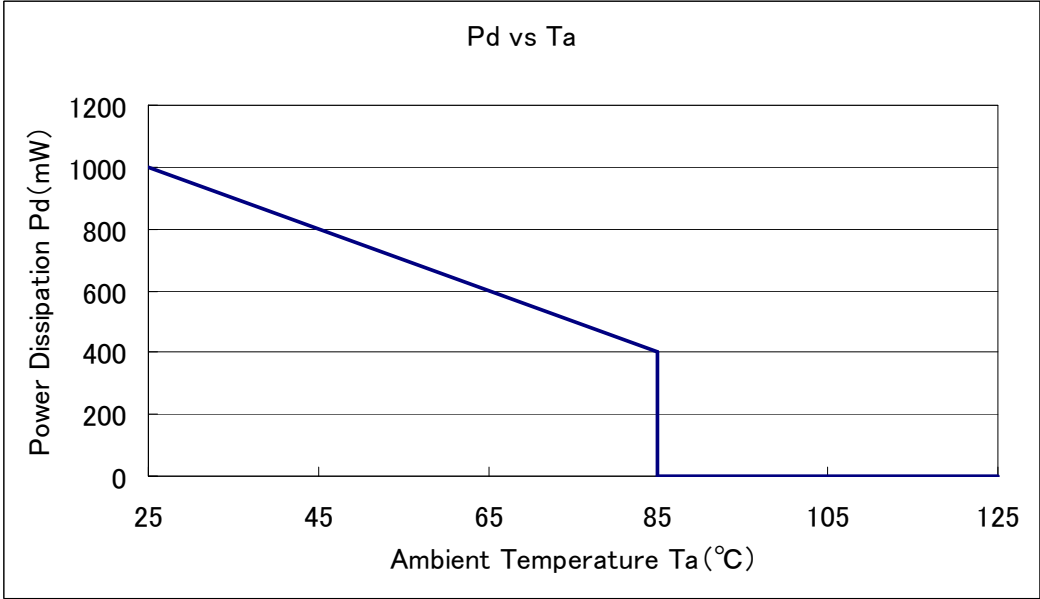
- Condition : Mount on a board
- Ambient : Natural convection
- Soldering : Lead (Pb) free
- Board : Dimensions 40×40mm (1600mm² in one side)
- Copper (Cu) traces occupy 50% of the board area
- In top and back faces
- Package heat-sink is tied to the copper traces
- Material : Glass Epoxy (FR-4)
- Thickness : 1.6mm
- Through-hole : 5 x 0.8 Diameter



2. Power Dissipation vs. Ambient temperature

Board Mount (Tjmax=125°C)

Ambient Temperature (°C)	Power Dissipation Pd (mW)	Thermal Resistance (°C/W)
25	1000	100.00
85	400	



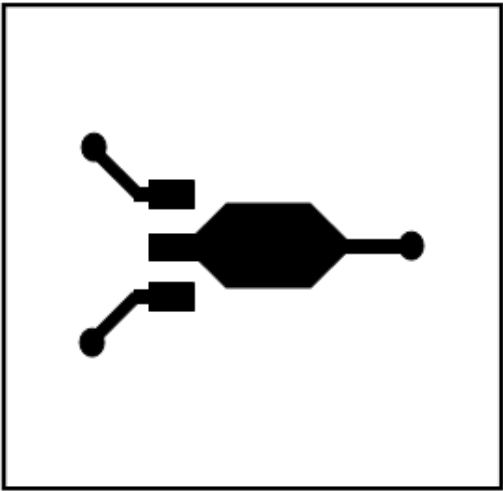
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The value of power dissipation varies with the mount board conditions.

Please use this data as one of reference data taken in the described condition.

1. Measurement Condition (Reference data)

- Condition : Mount on a board
- Ambient : Natural convection
- Soldering : Lead (Pb) free
- Board : Dimensions 250mm²
- Material : Ceramic
- Thickness : 0.8mm



Evaluation Board (Unit : mm)

2. Power Dissipation vs. Ambient temperature

Board Mount (Tjmax=150°C)

Ambient Temperature (°C)	Power Dissipation Pd (mW)	Thermal Resistance (°C/W)
25	1000	83.33
105	540	

