

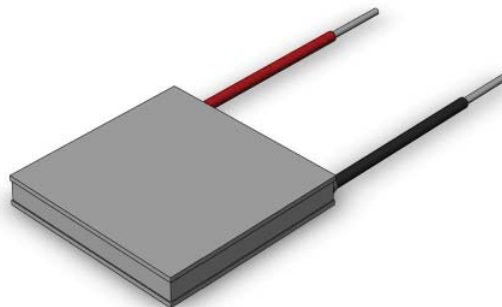


PART NUMBER: CP60340

DESCRIPTION: PELTIER MODULE

## FEATURES

- solid state device
- small and lightweight
- precise temperature control
- quiet operation
- RoHS compliant



## INPUT

| parameter  | conditions/description                   | min   | nom   | max   | units    |
|------------|------------------------------------------|-------|-------|-------|----------|
| resistance | measured by AC 4-terminal method at 25°C | 1.089 | 1.210 | 1.331 | $\Omega$ |
| current    | maximum current at $\Delta T_{max}$      |       |       | 6     | A        |
| voltage    | maximum voltage at $\Delta T_{max}$      |       |       | 8.6   | V        |

## OUTPUT

| parameter          | conditions/description   | min | nom | max  | units            |
|--------------------|--------------------------|-----|-----|------|------------------|
| $Q_{max}^1$        | $T_h = 27^\circ\text{C}$ |     |     | 29.0 | W                |
|                    | $T_h = 50^\circ\text{C}$ |     |     | 32.4 | W                |
| $\Delta T_{max}^2$ | $T_h = 27^\circ\text{C}$ |     |     | 68   | $^\circ\text{C}$ |
|                    | $T_h = 50^\circ\text{C}$ |     |     | 75   | $^\circ\text{C}$ |

Notes: 1. Maximum cooling capacity at  $I_{max}$ ,  $V_{max}$ , and  $\Delta T = 0^\circ\text{C}$   
2. Maximum temperature difference at  $I_{max}$ ,  $V_{max}$ ,  $Q = 0$  W (maximum parameters are measured in a vacuum)

## GENERAL

| parameter                  | conditions/description                  | min | nom | max     | units             |
|----------------------------|-----------------------------------------|-----|-----|---------|-------------------|
| solder melting temperature | connection between thermoelectric pairs |     |     | 138     | $^\circ\text{C}$  |
| assembly compression       |                                         |     |     | 98.07   | $\text{N/cm}^2$   |
|                            |                                         |     |     | 10      | $\text{kgf/cm}^2$ |
| hot side plate             |                                         |     |     | 90      | $^\circ\text{C}$  |
| MTBF                       |                                         |     |     | 200,000 | hours             |

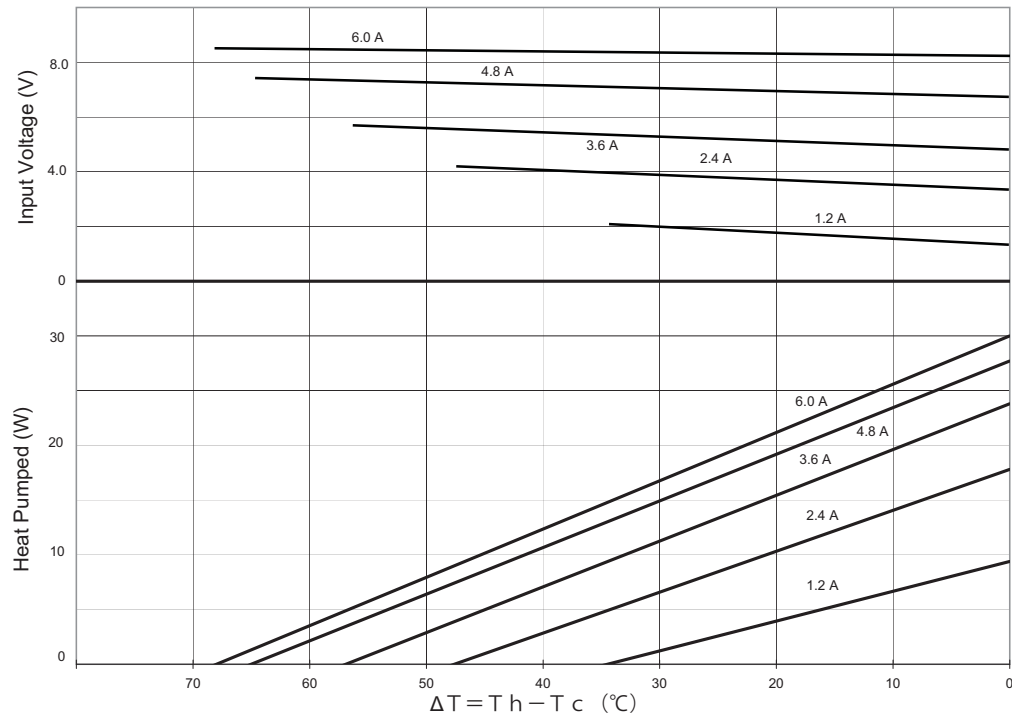
\*for further information and product selection refer to peltier application notes.pdf



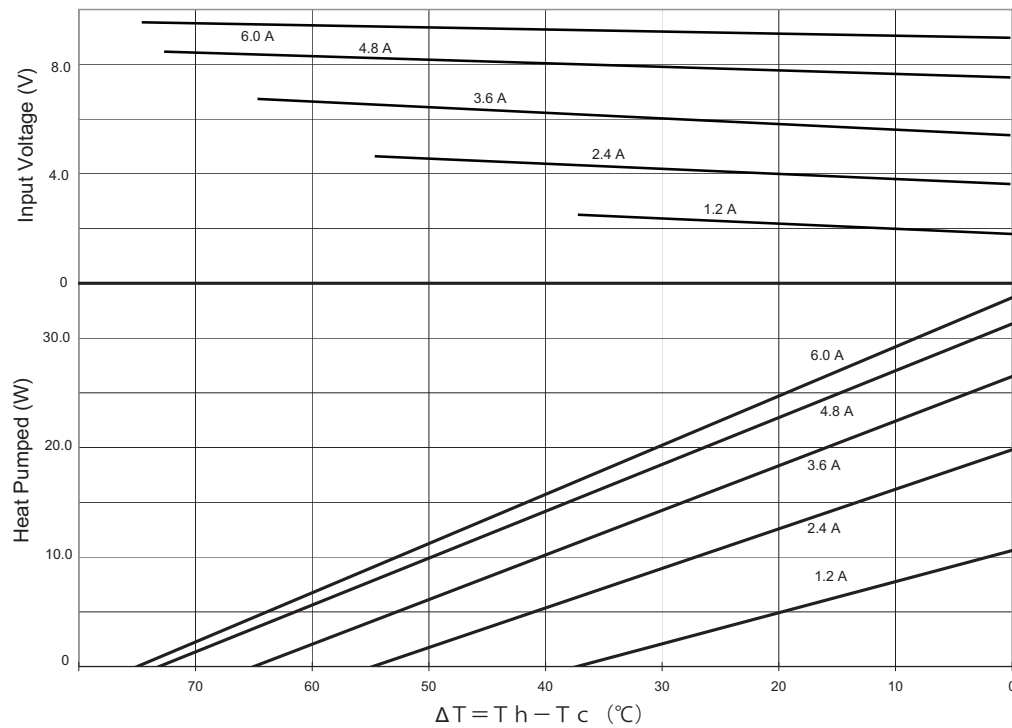
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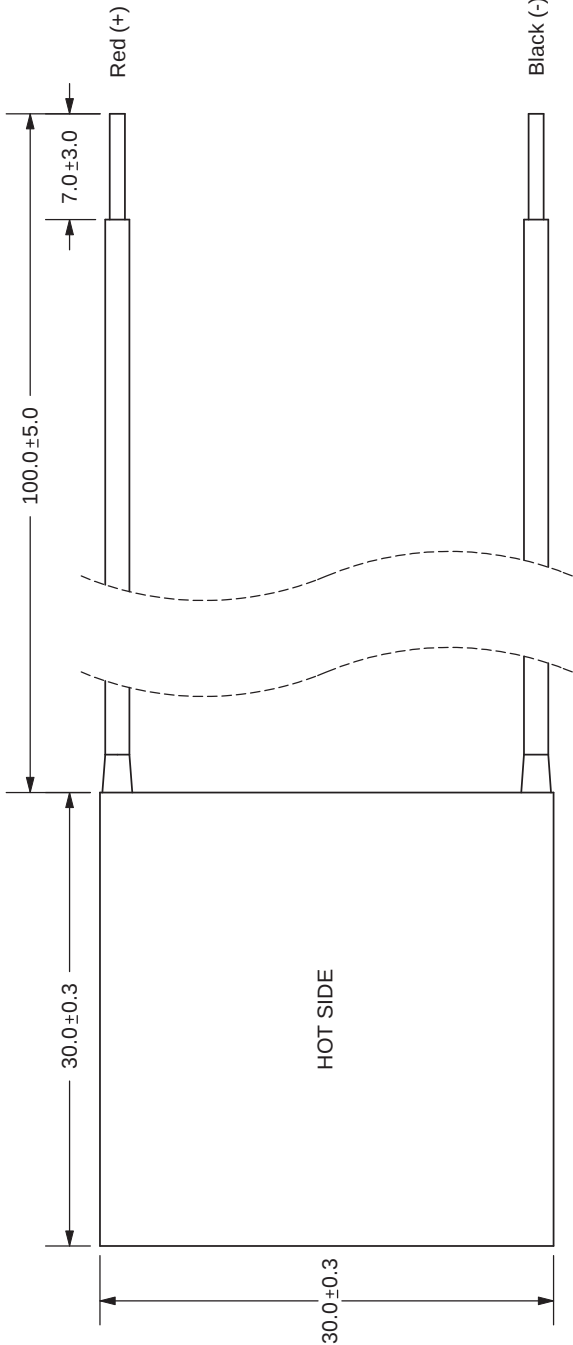
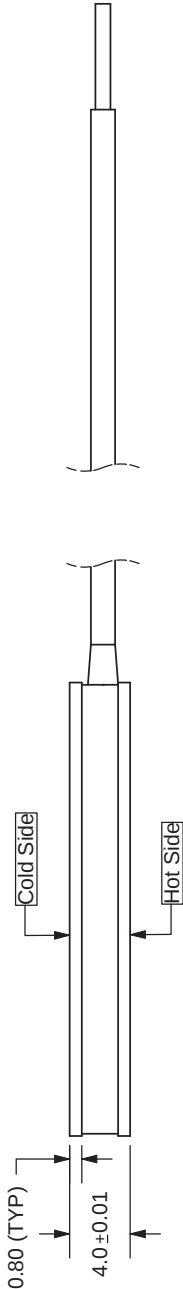
## PERFORMANCE (Th=27°C)



## PERFORMANCE (Th=50°C)



| REV. | DESCRIPTION | DATE      |
|------|-------------|-----------|
| A    | NEW DRAWING | 10/3/2007 |



HOT SIDE

SCALE 1:1



TOLERANCE:  
±0.1mm UNLESS OTHERWISE  
NOTED



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|                                                     |                                          |                    |
|-----------------------------------------------------|------------------------------------------|--------------------|
| TITLE: PELTIER MODULE                               |                                          | REV: A             |
| CERAMIC PLATE<br>SEALER<br>LEAD WIRE<br>JOINT COVER | MATERIAL                                 | PLATING            |
|                                                     | Al <sub>2</sub> O <sub>3</sub> (Alumina) | White Color        |
|                                                     | Silicon Rubber RTV                       | White Color        |
| UL1332                                              |                                          | Tin                |
| Silicon Rubber RTV                                  |                                          | White Color        |
| PART NO. CP60340                                    |                                          | UNITS: MM [INCHES] |
| DRAWN BY: ZRJ                                       |                                          | APPROVED BY:       |
|                                                     |                                          | SCALE: 2:1         |