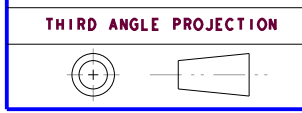


- Notes:
1. Printing always on cold side.
 2. Torlerance of thermo and electric parameters $\pm 10\%$.
 3. Please mount heat sink before you use it. also, please do not exceed the extra voltage at any time.
 4. Please contact with us if you need Melting Point 183°C (Operation Temperature 150°C Max.).

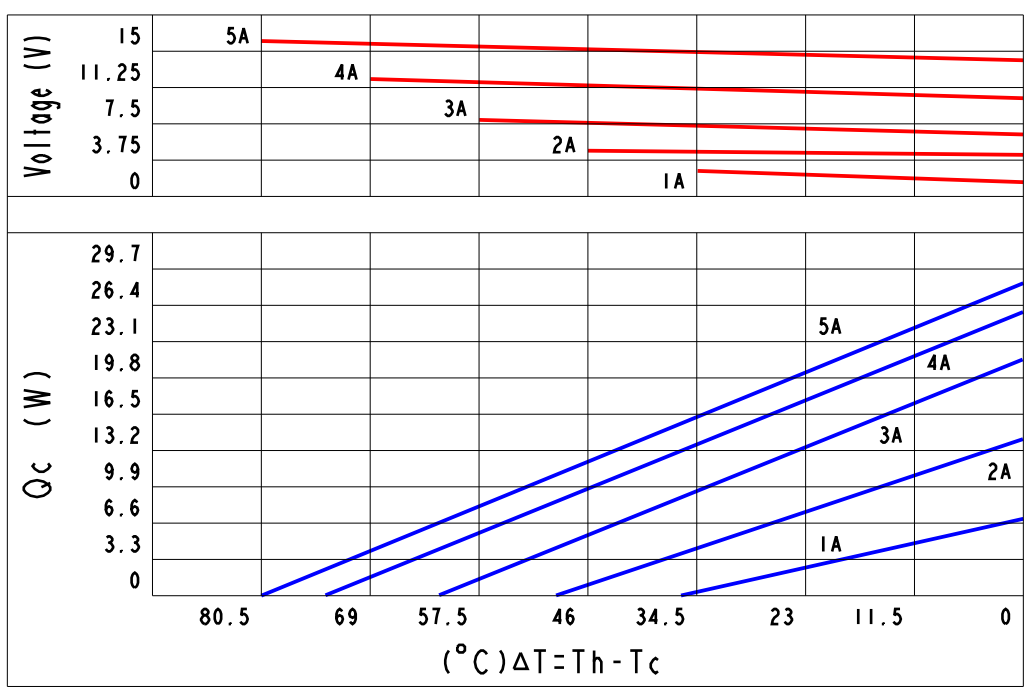
*DO NOT SCALE DRAWING



THIS DRAWING AND THE DATA DISCLOSED HEREIN OR HEREWITH IS NOT TO BE REPR ODUCE
USED OR DISCLOSED OR IN PART TO ANYONE WITHOUT THE PERMISSION OF KJLP (SHENZHEN) ELECTRONICS
CO., LTD.

| REVISIONS | | | | | | |
|-----------|------|------------------|------------|------|-------|------|
| REV. | POS. | DESCRIPTION | DATE | DRW | APP | ECR# |
| A | | INITIAL CREATION | 2013/09/09 | Gory | Mason | |

Curve Chart(Be Confined To TEC2-191053030):




Part Number And Feature:

| | | | | | | | | | | | | | | | |
|--------|----------|------|-------|-------|-------|-------|----------|---------|---------|-----------|-----|-----------|-----|-----------------------|---|
| T | E | C | 2 | - | 1 | 9 | 1 | x | x | 3 | 0 | 3 | 0 | Sealing | YES |
| | | | | | | | | | | | | | | Operation Temperature | 125°C (Max.) |
| Thermo | Electric | Chip | Stage | Stack | N & P | Stack | Quantity | Current | A(Max.) | Dimension | (A) | Dimension | (B) | Melting Point | 138°C |
| | | | | | | | | | | | | | | Storage Temperature | $-60^{\circ}\text{C}\sim 100^{\circ}\text{C}$ |
| | | | | | | | | | | | | | | RoHS | YES |

Technical Data:

| ITEM | Part NO. | Stack(P&N) | A(Max.) | V(Max.) | Qc(W) /Th= 27°C / $\Delta\text{T}(^{\circ}\text{C})$ | DIM(A) | DIM(B) | DIM(H) | |
|------|----------------|------------|---------|---------|--|----------------------|--------|--------|-------|
| 1 | TEC2-191023030 | 191 | 2 A | 15 V | 13W | 80°C | 30 | 30 | RF6.8 |
| 2 | TEC2-191033030 | 191 | 3 A | 15 V | 15W | 80°C | 30 | 30 | RF6.6 |
| 3 | TEC2-191053030 | 191 | 5 A | 15 V | 29W | 80°C | 30 | 30 | RF5.9 |

1. UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE MM
2 TOLERANCE ARE AS FOLLOWS:
 $0 < X < 2 \pm 0.06$
 $2 < X < 10 \pm 0.08$
 $10 < X < 50 \pm 0.12$
 $50 < X < 100 \pm 0.16$
 $100 < X < 200 \pm 0.20$
 $200 < X < 300 \pm 0.30$
 ANGLES $\pm 0.5^{\circ}$

| | | | | |
|-------------|----------------|--|---|------------|
| PART No. | TEC2-191xx3030 | DESCRIPTION | DC 15V(Max.),2~5A(Max.),191 P&N,30*30mm | |
| SIGNATURCE | DATE |  昆晶冷片(深圳)电子有限公司 KJLP(SHENZHEN)ELECTRONICS CO., LTD email: kjlp@kjlp.net http:// www.kjlp.net Tel: +86-755-82528352 Fax: +86-755-22639899 | | |
| DRAWN BY | Gory | | | 2013/09/09 |
| CHECKED BY | Justin | | | 2013/09/09 |
| ENGR | Vivi | | | 2013/09/09 |
| APPROVED BY | Mason | | | 2013/09/09 |
| ISSUED BY | Jack | 2013/09/09 | | |
| MATERIAL: | | CAD MODLE: | TEC2-191xx3030.prt | |
| | | CAD DWG: | TEC2-191xx3030.drw | |
| | | SCALE: | 1:1 | |
| | | REV: | A | |
| | | SIZE: | A3 | |
| | | SHEET: | 1 OF 1 | |