

G5S06506QT

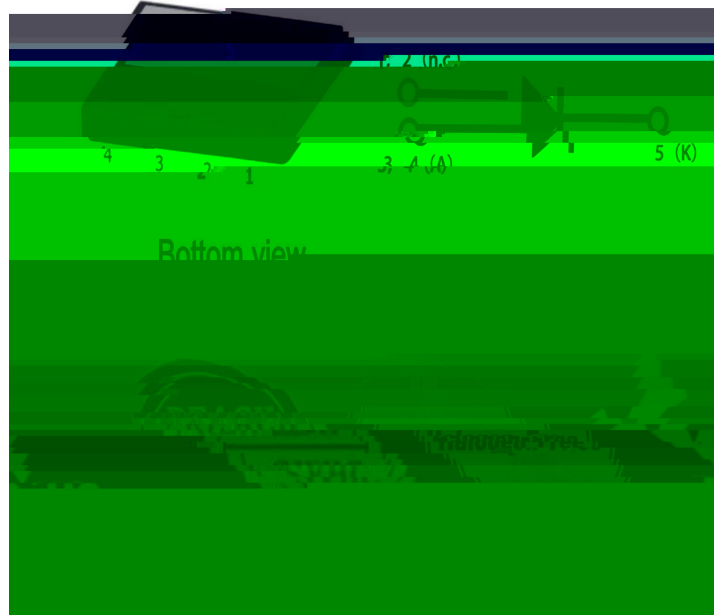
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(SMPS)

(PFC)

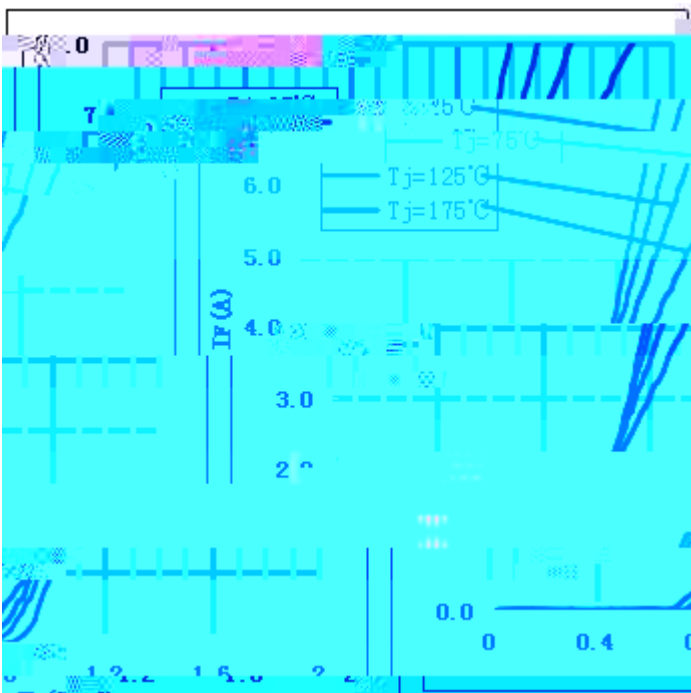
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|            |         |            |
| G5S06506QT | DFN8* 8 | G5S06506QT |

|  |           |   |                 |   |
|--|-----------|---|-----------------|---|
|  |           |   |                 |   |
|  | $V_{RRM}$ |   | 650             | V |
|  | $V_{RSM}$ |   | 650             | V |
|  | $V_{DC}$  |   | 650             | V |
|  | $I_F$     | $T_C=25$<br>$T_C=125$<br>$T_C=163$              | 34<br>18.8<br>6 | A |
|  | $I_{FRM}$ | $T_C=25$ , $t_p=10ms$ Half Sine Wave<br>$D=0.3$ | 30              | A |
|  | $I_{FSM}$ | $T_C=25$ , $t_p=10ms$ Half Sine Wave            | 90              | A |
|  | $P_{TOT}$ | $T_C=25$  | 183             | W |
|  |           | $T_C=110$                                       | 79              | W |
|  | $T_j$     |   | -55 to 175      |   |
|  | $T_{stg}$ |   | -55 to 175      |   |

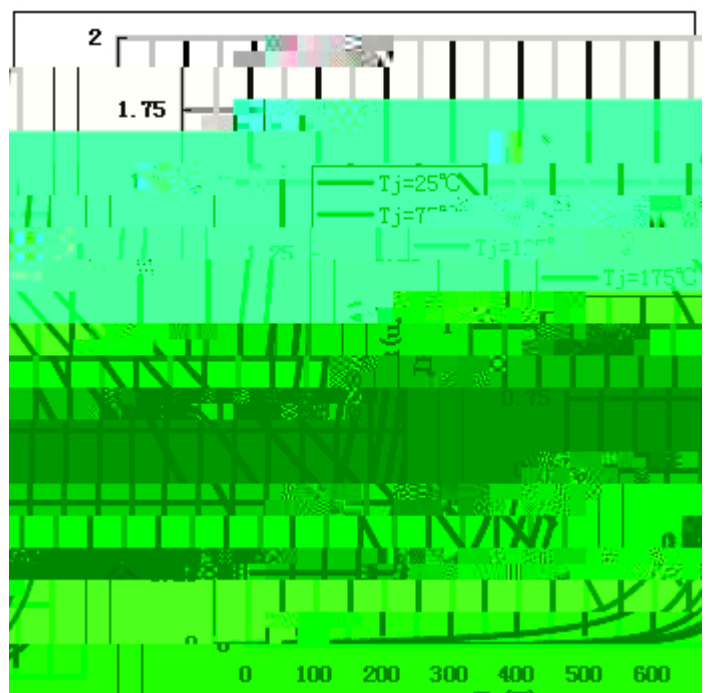
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|--|------------|--|------|------------|
|  |            |  |      |            |
|  | $R_{thJC}$ |  | 0.82 | $\Delta W$ |

|  |       |   |     |     |         |
|--|-------|---|-----|-----|---------|
|  |       |   |     |     |         |
|  | $V_F$ | $I_F=6A, T_j=25$                                    | 1.3 | 1.5 | V       |
|  |       | $I_F=6A, T_j=175$                                   | 1.6 | 1.8 |         |
|  | $I_R$ | $V_R=650V, T_j=25$                                  | 0.2 | 50  | $\mu A$ |
|  |       | $V_R=650V, T_j=175$                                 | 2.5 | 100 |         |
|  | $Q_C$ | $V_R=400V, T_j=150$<br>$= \int_0^{\quad} ( \quad )$ | 21  | -   | nC      |
|  | C     | $V_R=0V, T_j=25, f=1MHz$                            | 395 | 400 | pF      |
|  |       | $V_R=200V, T_j=25, f=1MHz$                          | 38  | 42  |         |
|  |       | $V_R=400V, T_j=25, f=1MHz$                          | 36  | 40  |         |

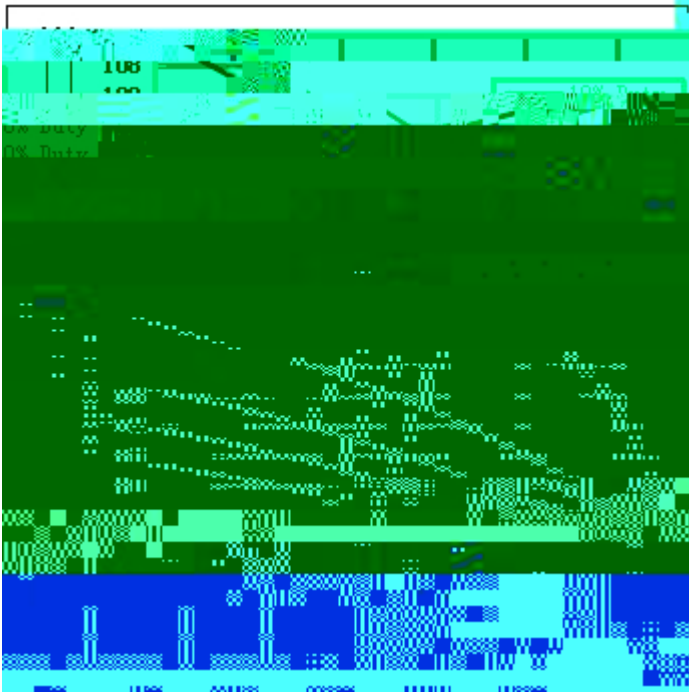
1)  $I_F=f(V_F)$   $T_j$



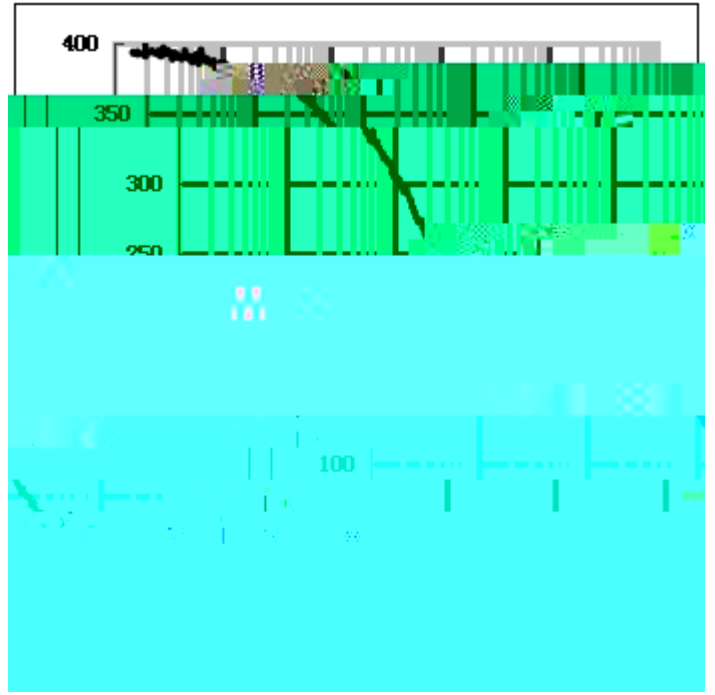
2)  $I_R=f(V_R)$   $T_j$



3) Current Derating  
 10% 30% 50% 70% DC



4) -



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