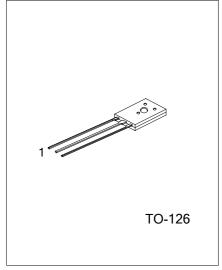
HIGH FREQUENCY SWITCHING TRANSISTORS FOR BALLASTERS

DESCRIPTION

UTC 4128 is designed for specially used for electronic ballasters in 110VAC environment.

FEATURES

- * Triple diffused technology.
- * High switching speed



1: BASE 2: COLLECTOR 3: EMITTER *Pb-free plating product number: 4128L

ABSOLUTE MAXIMUM RATINGS

(Tc = 25°€)

| PARAMETER | SYMBOL | RATINGS | UNIT |
|------------------------------------|---------------------|------------|------------|
| Collector-Base Voltage | V_{CBO} | 400 | V |
| Collector-Emitter Voltage | V _{CEO} | 200 | V |
| Collector-Emitter Voltage | ww\v0ataSheet4U.com | 7 | V |
| Peak Collector Current | I _C | 5 | Α |
| Peak Collector Consume Dissipation | Pc | 40 | W |
| Peak Junction Temperature | T _J | 150 | $^{\circ}$ |
| Storage Temperature | T _{STG} | -40 ~ +150 | $^{\circ}$ |

ELECTRICAL CHARACTERISTICS

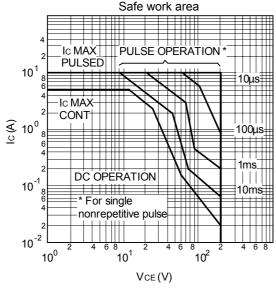
(Ta = 25°℃)

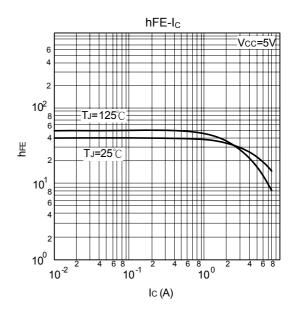
| PARAMETER | SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNIT |
|---------------------------------------|------------------------|--|-----|-----|-----|------|
| Collector-Emitter Maintenance Voltage | V _{CEO} (SUS) | I _C =10mA, I _B =0 | 200 | | | ٧ |
| Collector-Base Breakdown Voltage | V _{(BR) CBO} | I _C =1mA, I _B =0 | 400 | | | V |
| Emitter-Base Breakdown Voltage | $V_{(BR)EBO}$ | I _E =1mA, I _C =0 | 7 | | | V |
| Collector-Base Cutoff Current | I _{CBO} | V _{CB} =400V, I _E =0 | | | 100 | μΑ |
| Collector-Emitter Cutoff Current | I _{CEO} | V _{CE} =200V, I _B =0 | | | 100 | μΑ |
| Emitter-Base Cutoff Current | I _{EBO} | V _{EB} =7V, Ic=0 | | | 100 | μΑ |
| DC Current Gain | h _{FE (1)} | V _{CE} =10V, Ic=0.5A | 10 | | 60 | |
| | h _{FE (2)} | V _{CE} =5V, Ic=2A | 10 | | 40 | |
| Collector-Emitter Saturation Voltage | VCF (sat) | I _C =1A, I _B =0.2A | | | 8.0 | V |
| | | I _C =4A, I _B =1A | | | 2 | V |
| Base-Emitter Saturation Voltage | V _{BE (sat)} | I _C =2A, I _B =0.5A | | | 1.6 | ٧ |
| Fall Time | tf | $I_C=2A$, $I_{B1}=-I_{B2}=0.4A$ | | | 0.9 | μs |
| Storage Time | ts | $I_C=2A$, $I_{B1}=-I_{B2}=0.4A$ | | | 4 | μs |
| Feature Frequency | f_{T} | V _{CE} =10V, Ic=0.5A | 4 | | | MHz |

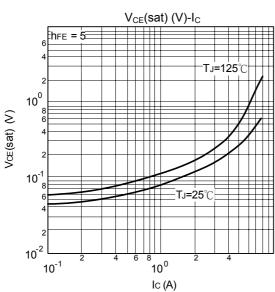
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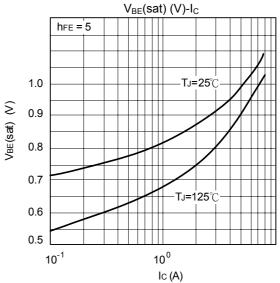
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CHARACTERISTICS CURVES









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