

DC-DC CONVERTERS RELAY DRIVERS, LAMP DRIVERS,
MOTOR DRIVERS, STROBES APPLICATION.

FEATURES

- Adoption of FBET, MBIT Processes.
- High Current Capacitance.
- Low Collector-to-Emitter Saturation Voltage.
- High-Speed Switching.
- Ultrasmall Package Facilitates Miniaturization in end Products.
- High Allowable Power Dissipation.
- Complementary to KTC3552T.
- Suffix U : Qualified to AEC-Q101.
ex) KTA1552T-RTK/HU

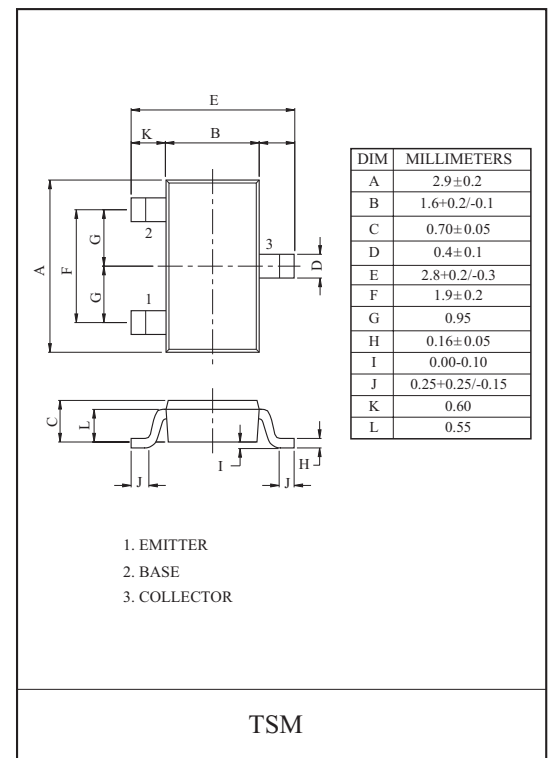
MAXIMUM RATING (Ta=25 °C)

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|-----------------------------|-------|------------------|---------|------|
| Collector-Base Voltage | | V _{CB0} | -50 | V |
| Collector-Emitter Voltage | | V _{CES} | -50 | V |
| | | V _{CEO} | -50 | |
| Emitter-Base Voltage | | V _{EBO} | -6 | V |
| Collector Current | DC | I _C | -3 | A |
| | Pulse | I _{CP} | -6 | |
| Base Current | | I _B | -600 | mA |
| Collector Power Dissipation | | P _C * | 0.9 | W |
| Junction Temperature | | T _j | 150 | |
| Storage Temperature Range | | T _{stg} | -55 150 | |

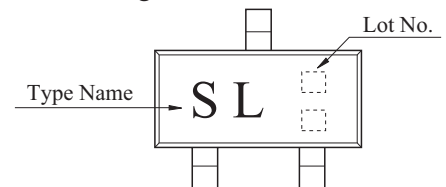
* Package mounted on a ceramic board (600mm² × 0.8mm)

ELECTRICAL CHARACTERISTICS (Ta=25 °C)

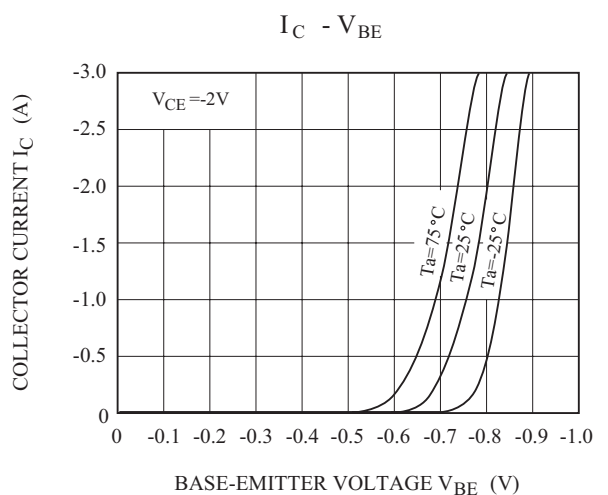
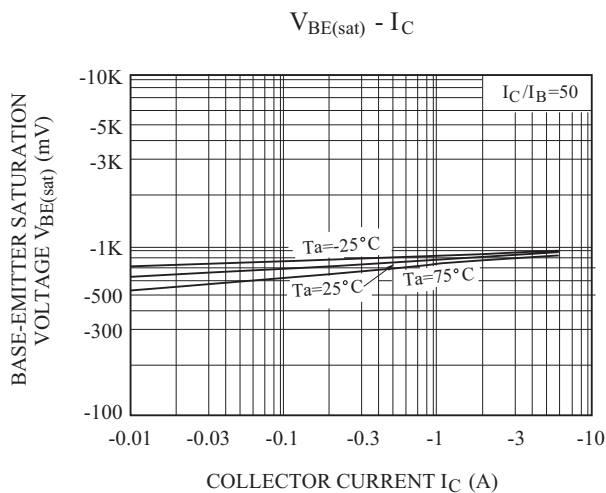
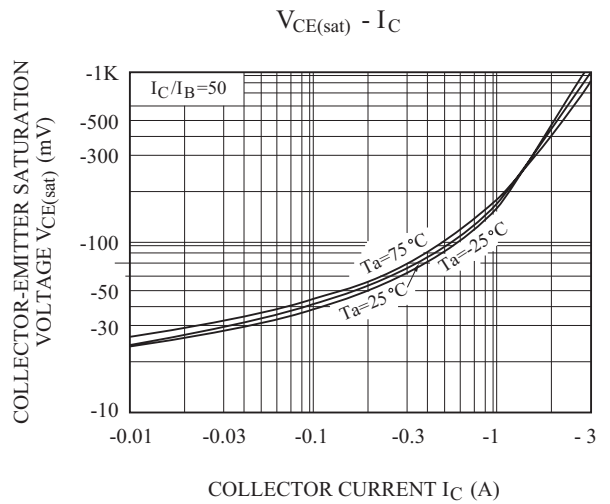
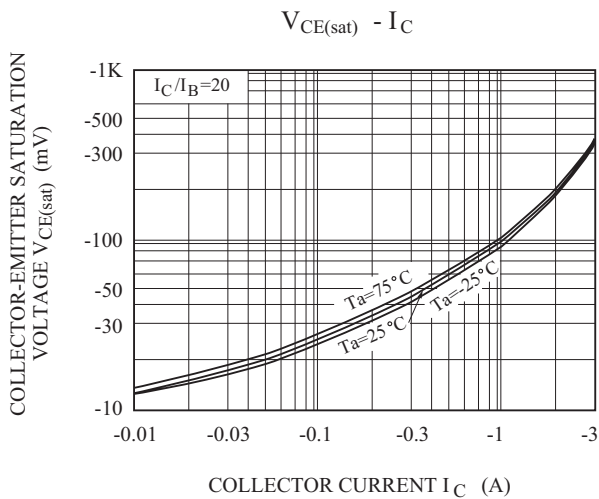
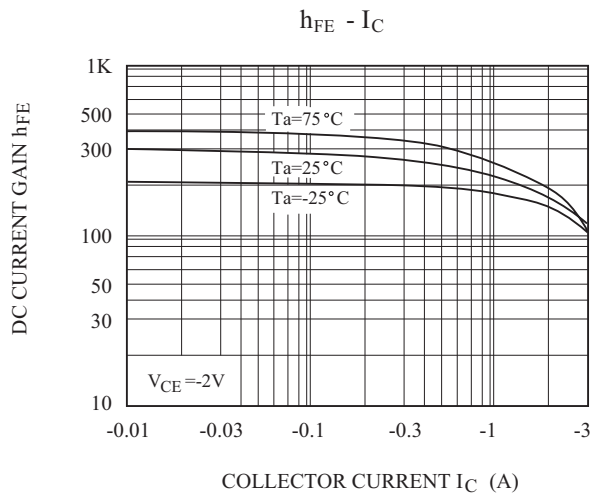
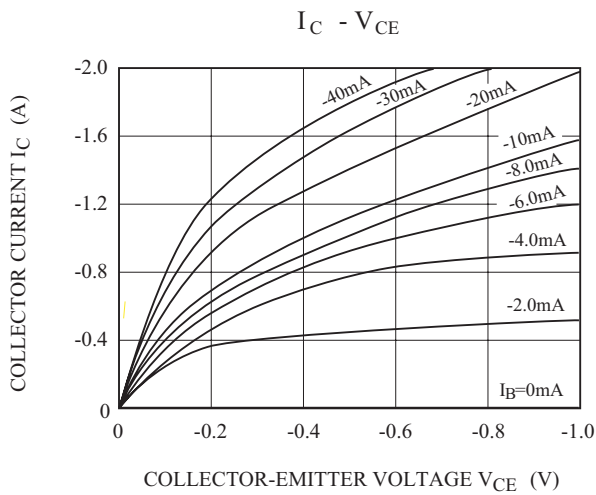
| CHARACTERISTIC | | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|--------------|-----------------------|---|------|-------|------|------|
| Collector Cut-off Current | | I _{CB0} | V _{CB} =-40V, I _E =0 | - | - | -0.1 | μA |
| Emitter Cut-off Current | | I _{EBO} | V _{EB} =-4V, I _C =0 | - | - | -0.1 | μA |
| Collector-Base Breakdown Voltage | | V _{(BR)CBO} | I _C =-10 μA, I _E =0 | -50 | - | - | V |
| Collector-Emitter Breakdown Voltage | | V _{(BR)CES} | I _C =-100 μA, V _{BE} =0 | -50 | - | - | V |
| | | V _{(BR)CEO} | I _C =-1mA, I _B =0 | -50 | - | - | V |
| Emitter-Base Breakdown Voltage | | V _{(BR)EBO} | I _E =-10 μA, I _C =0 | -6 | - | - | V |
| Collector-Emitter Saturation Voltage | | V _{CE(sat)1} | I _C =-1A, I _B =-50mA | - | -100 | -200 | mV |
| | | V _{CE(sat)2} | I _C =-2A, I _B =-100mA | - | -185 | -500 | mV |
| Base-Emitter Saturation Voltage | | V _{BE(sat)} | I _C =-2A, I _B =-100mA | - | -0.88 | -1.2 | V |
| DC Current Gain | | h _{FE} | V _{CE} =-2V, I _C =-100mA | 200 | - | 560 | |
| Transition Frequency | | f _T | V _{CE} =-10V, I _C =-500mA | - | 360 | - | MHz |
| Collector Output Capacitance | | C _{ob} | V _{CB} =-10V, f=1MHz | - | 24 | - | pF |
| Switching Time | Turn-On Time | t _{on} | | - | 30 | - | nS |
| | Storage Time | t _{stg} | | - | 230 | - | |
| | Fall Time | t _f | | - | 15 | - | |



Marking

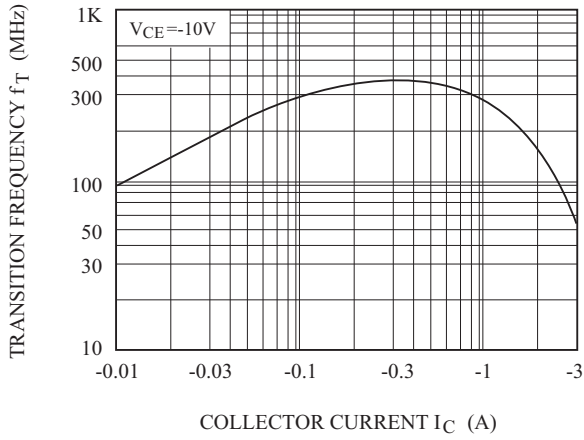


KTA1552T

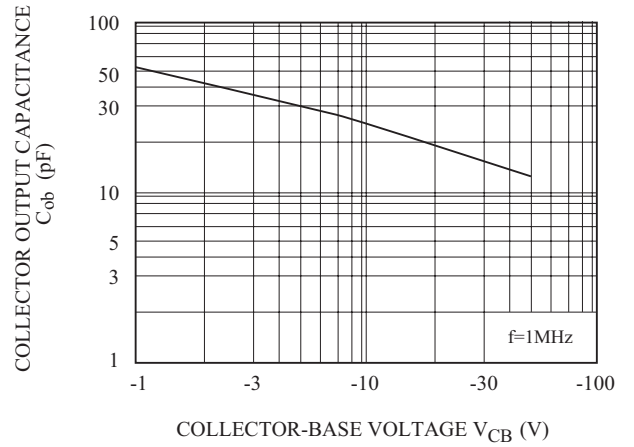


KTA1552T

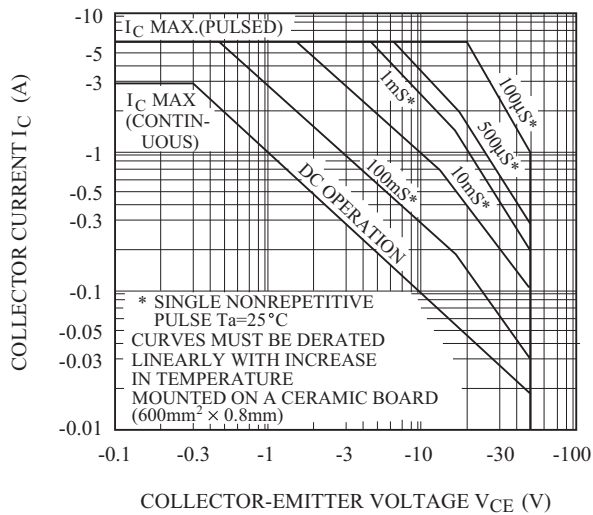
$f_T - I_C$



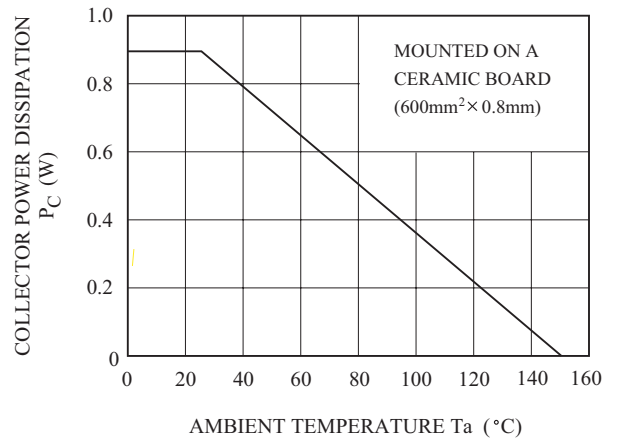
$C_{ob} - V_{CB}$



SAFE OPERATING AREA



$P_c - T_a$



单击下面可查看定价，库存，交付和生命周期等信息

[>>KEC\(开益禧\)](#)