# KTA1532U

**EPITAXIAL PLANAR PNP TRANSISTOR**

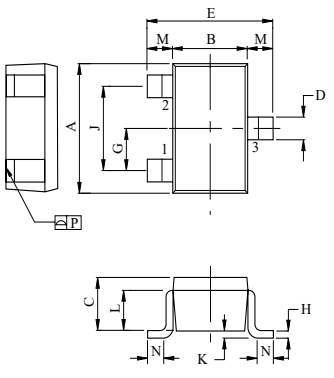
LOW FREQUENCY AMPLIFIER DRIVER

FEATURES

· A Collector Current is large.

· Collector Saturation Voltage is low.

$V_{CE(sat)} \leq$ -200mV at $I_C$=500mA, $I_D$=-25mA.




| DIM | MILLIMETERS |
|---|---|
| A | 2.00±0.20 |
| B | 1.25±0.15 |
| C | 0.90±0.10 |
| D | 0.3+0.10/-0.05 |
| E | 2.10±0.20 |
| G | 0.65 |
| H | 0.15+0.1/-0.06 |
| J | 1.30 |
| K | 0.00~0.10 |
| L | 0.70 |
| M | 0.42±0.10 |
| N | 0.10 MIN |
| P | 0.1 MAX |

1. EMITTER
2. BASE
3. COLLECTOR

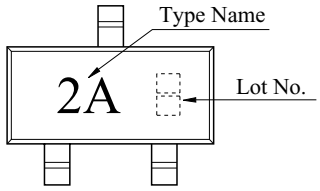
USM

MAXIMUM RATING (Ta=25℃)

| CHARACTERISTIC | | SYMBOL | RATING | UNIT |
|---|---|---|---|---|
| Collector-Base Voltage | | $V_{CBO}$ | -15 | V |
| Collector-Emitter Voltage | | $V_{CEO}$ | -12 | V |
| Emitter-Base Voltage | | $V_{EBO}$ | -6 | V |
| Collector Current | DC | $I_C$ | -1.5 | A |
| | Pulse | $I_{CP}$ | -3 | |
| Collector Power Dissipation | | $P_C$* | 0.2 | W |
| Junction Temperature | | $T_j$ | 150 | ℃ |
| Storage Temperature Range | | $T_{stg}$ | -55 150 | ℃ |

* Package Mounted on a Ceramic Board ( 600mm$^2$×0.8mm)

MARKING

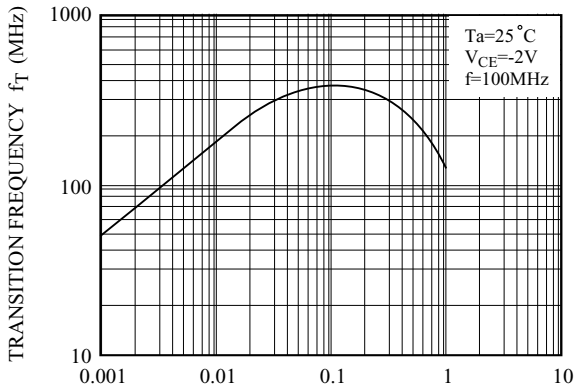



ELECTRICAL CHARACTERISTICS (Ta=25℃)

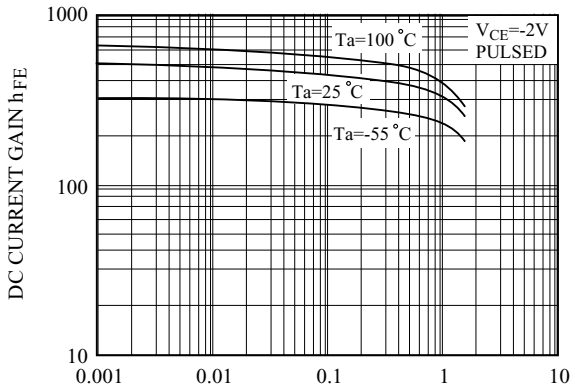
| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|---|---|---|---|---|---|---|
| Collector Cut-off Current | $I_{CBO}$ | $V_{CB}$=-15V, $I_E$=0 | - | - | -0.1 | μA |
| Emitter Cut-off Current | $I_{EBO}$ | $V_{EB}$=-6V, $I_C$=0 | - | - | -0.1 | μA |
| Collector-Base Breakdown Voltage | $V_{(BR)CBO}$ | $I_C$=-10 μA, $I_E$=0 | -15 | - | - | V |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C$=-1mA, $I_B$=0 | -12 | - | - | V |
| Emitter-Base Breakdown Voltage | $V_{(BR)EBO}$ | $I_E$=-10 μA, $I_C$=0 | -6 | - | - | V |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C$=-500mA, $I_B$=-25mA | - | -110 | -200 | mV |
| DC Current Gain | $h_{FE}$ | $V_{CE}$=-2V, $I_C$=-200mA | 270 | - | 680 | |
| Transition Frequency | $f_T$ | $V_{CE}$=-2V, $I_E$=200mA, f=100MHz* | - | 400 | - | MHz |
| Collector Output Capacitance | $C_{ob}$ | $V_{CB}$=-10V, f=1MHz | - | 12 | - | pF |

*Pulsed

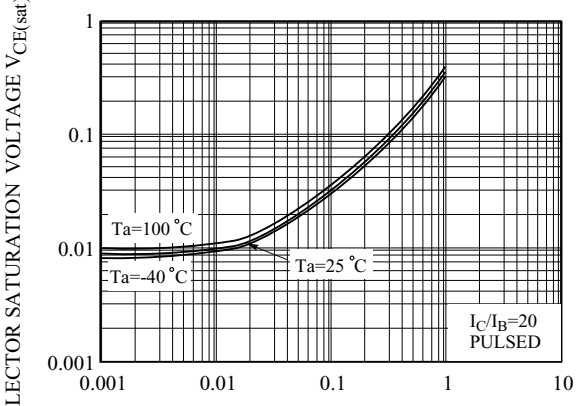
$f_T$ - $I_E$



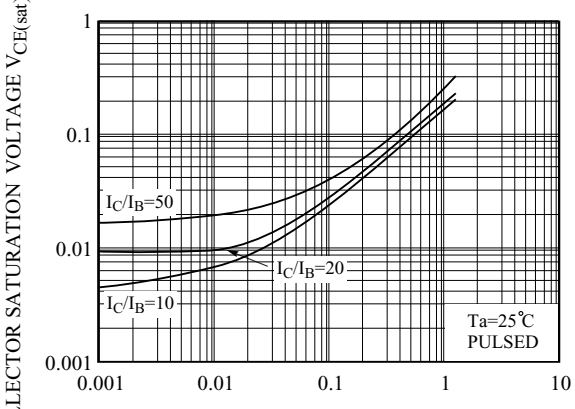

$h_{FE}$ - $I_C$



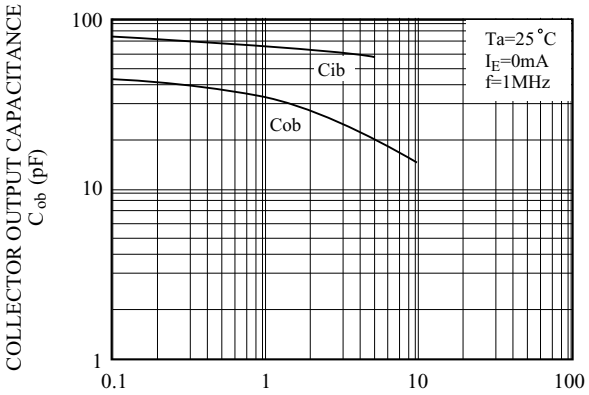

$V_{CE(sat)}$ - $I_C$




$V_{BE(sat)}$ - $I_C$




$C_{ob}$ - $V_{CB}$




$I_C$ - $V_{BE}$