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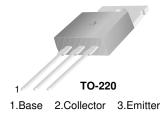
August 2009



KSA473 PNP Epitaxial Silicon Transistor

Features

- · Low Frequency Power Amplifier, Power Regulator
- Collector Current : I_C= -3A
- Collector Dissipation : $P_C = 10W (T_C=25^{\circ}C)$
- Complement to KSC1173



Absolute Maximum Ratings * T_A = 25°C unless otherwise noted

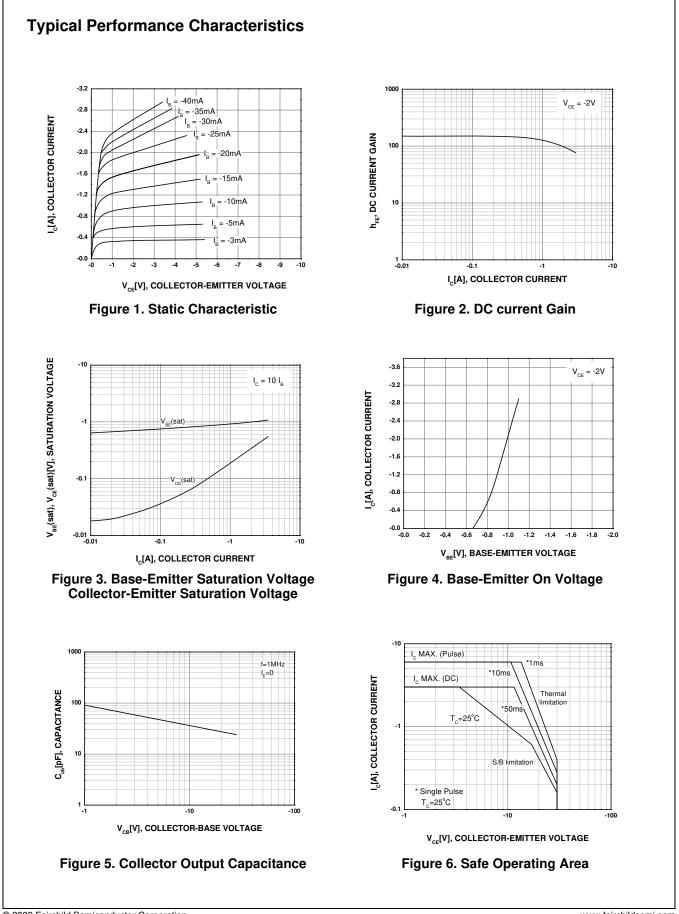
| Symbol | Parameter | Value | Units |
|------------------|--|---------------|-------|
| V _{CBO} | Collector-Base Voltage | - 30 | V |
| V _{CEO} | Collector-Emitter Voltage | - 30 | V |
| V _{EBO} | Emitter-Base Voltage | - 5 | V |
| Ι _C | Collector Current | - 3 | А |
| P _C | Collector Dissipation (T _C =25°C) | 10 | W |
| ТJ | Junction Temperature | 150 | ٥C |
| T _{STG} | Storage Temperature | - 55 to + 150 | °C |

* These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

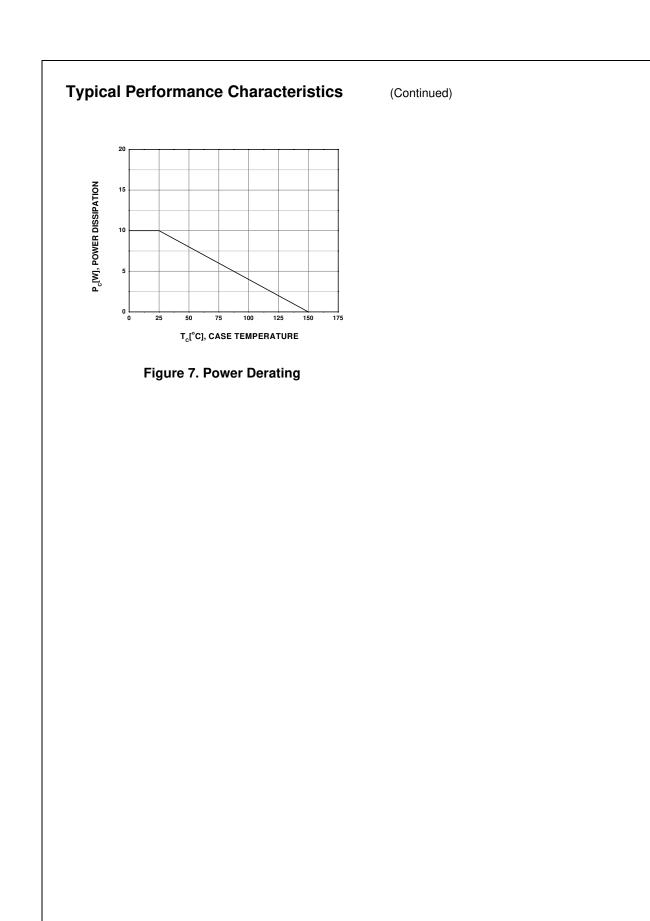
| Symbol | Parameter | Test Condition | Min. | Тур. | Max. | Units |
|--------------------------------------|--------------------------------------|--|----------|--------|-------|-------|
| BV_{CBO} | Collector-Base Breakdown Voltage | $I_{C} = -500 \mu A, I_{E} = 0$ | - 30 | | | V |
| BV _{CEO} | Collector-Emitter Breakdown Voltage | I _C = - 10mA, I _B = 0 | - 30 | | | V |
| BV_{EBO} | Emitter-Base Breakdown Voltage | I _E = - 1mA, I _C = 0 | - 5 | | | V |
| I _{CBO} | Collector Cut-off Current | $V_{CB} = -20V, I_{E} = 0$ | | | - 1.0 | μA |
| I _{EBO} | Emitter Cut-off Current | $V_{EB} = -5V, I_{C} = 0$ | | | - 1.0 | μA |
| h _{FE1} h _{FE2} | DC Current Gain | $V_{CE} = -2V, I_{C} = -0.5A$ $V_{CE} = -2V, I_{C} = -2.5A$ | 70 25 | | 240 | |
| V _{CE} (sat) | Collector-Emitter Saturation Voltage | I _C = - 2A, I _B = - 0.2A | | - 0.3 | - 0.8 | V |
| V _{BE} (on) | Base-Emitter On Voltage | $V_{CE} = -2V, I_{C} = -0.5A$ | | - 0.75 | - 1.0 | V |
| f _T | Current Gain Bandwidth Product | V _{CE} = - 2V, I _C = - 0.5A | | 100 | | MHz |
| C _{ob} | Output Capacitance | $V_{CB} = -10V, I_E = 0,$ f = 1MHz | | 40 | | pF |

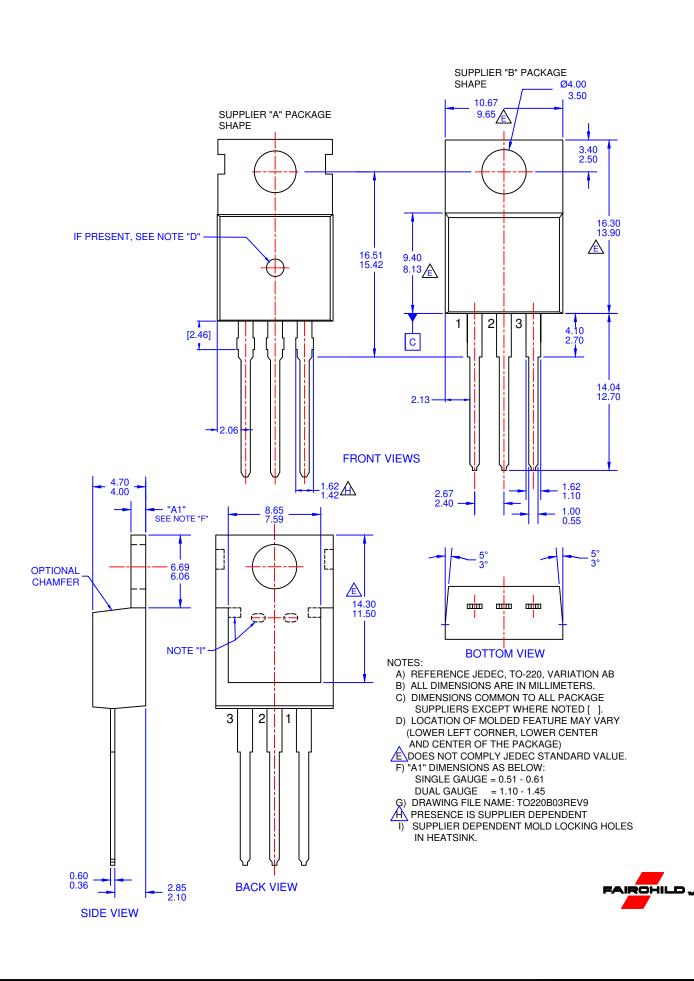
h_{FE} Classification

| Classification | 0 | Y | | | | | |
|------------------|----------|-----------|--|--|--|--|--|
| h _{FE1} | 70 ~ 140 | 120 ~ 240 | | | | | |



KSA473 — PNP Epitaxial Silicon Transistor





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