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KSA940

Vertical Deflection Output Power Amplifier

• Complement to KSC2073



1.Base 2.Collector 3.Emitter

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_C=25^{\circ}C$ unless otherwise noted

| Symbol | Parameter | Ratings | Units |
|------------------|--|------------|-------|
| V_{CBO} | Collector-Base Voltage | - 150 | V |
| V_{CEO} | Collector-Emitter Voltage | - 150 | V |
| V _{EBO} | Emitter-Base Voltage | - 5 | V |
| I _C | Collector Current | - 1.5 | А |
| I _B | Base Current | - 0.5 | А |
| P _C | Collector Dissipation (T _a =25°C) | 1.5 | W |
| P _C | Collector Dissipation (T _C =25°C) | 25 | W |
| T _J | Junction Temperature | 150 | °C |
| T _{STG} | Storage Temperature | - 55 ~ 150 | °C |

Electrical Characteristics $T_C=25$ °C unless otherwise noted

| Symbol | Parameter | Test Condition | Min. | Тур. | Max. | Units |
|-----------------------|--------------------------------------|---|--------|--------|--------|-------|
| I _{CBO} | Collector Cut-off Current | $V_{CB} = -120V, I_{E} = 0$ | | | - 10 | μΑ |
| I _{EBO} | Emitter Cut-off Current | $V_{EB} = -5V, I_{C} = 0$ | | | - 10 | μΑ |
| h _{FE} | DC Current Gain | $V_{CE} = -10V, I_{C} = -500mA$ | 40 | 75 | 140 | |
| V _{CE} (sat) | Collector-Emitter Saturation Voltage | $I_C = -500 \text{mA}, I_B = -50 \text{mA}$ | | | - 1.5 | V |
| V _{BE} (on) | Base-Emitter ON Voltage | $V_{CE} = -10V, I_{C} = -500mA$ | - 0.65 | - 0.75 | - 0.85 | V |
| f _T | Current Gain Bandwidth Product | $V_{CE} = -10V, I_{C} = -500mA$ | | 4 | | MHz |
| C _{ob} | Output Capacitance | V _{CB} = - 10V, I _E = 0 f = 1MHz | | 55 | | pF |

Typical Characteristics

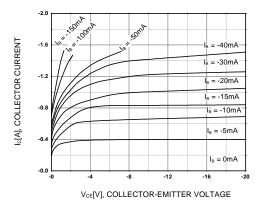


Figure 1. Static Characteristic

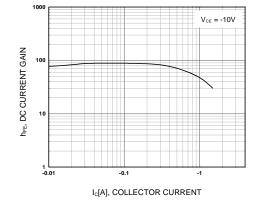


Figure 2. DC current Gain

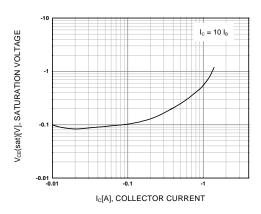


Figure 3. Collector-Emitter Saturation Voltage

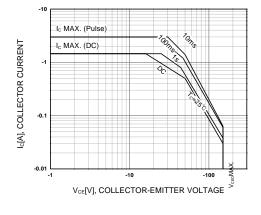


Figure 4. Safe Operating Area

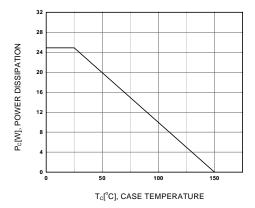
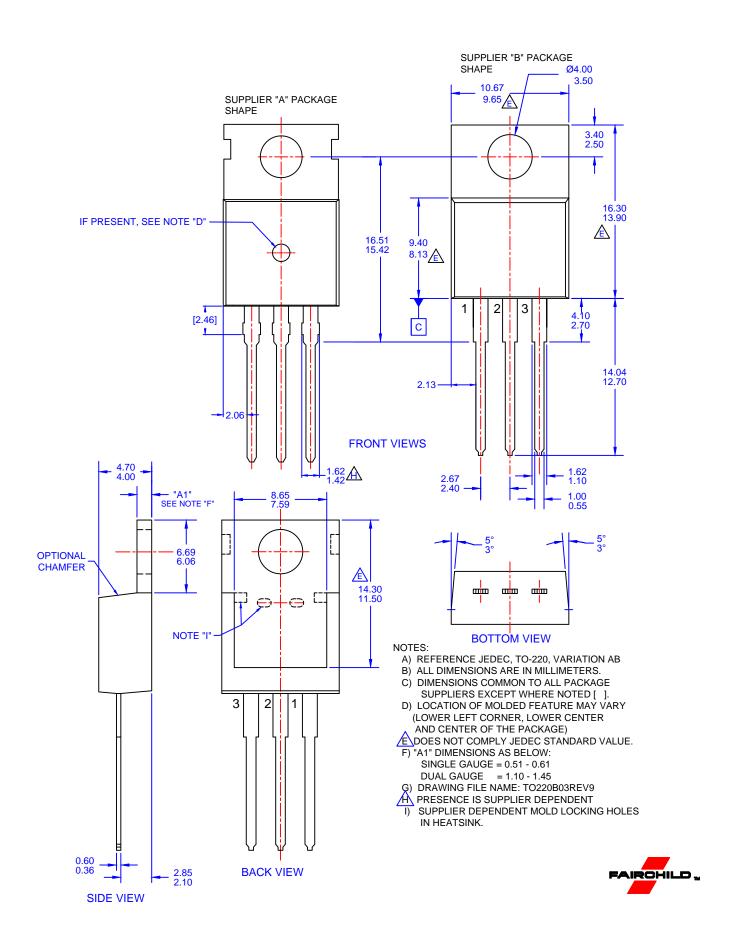


Figure 5. Power Derating

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