

DRIVER STAGE AMPLIFIER APPLICATIONS.
VOLTAGE AMPLIFIER APPLICATIONS.

FEATURES

- Complementary to MPSA55.
- Driver Stage Application of 20 to 25 Watts Amplifiers.

MAXIMUM RATING (Ta=25°C)

| CHARACTERISTIC | SYMBOL | RATING | UNIT |
|-----------------------------|-----------|-----------|------|
| Collector-Base Voltage | V_{CBO} | 60 | V |
| Collector-Emitter Voltage | V_{CEO} | 60 | V |
| Emitter-Base Voltage | V_{EBO} | 6 | V |
| Collector Current | I_C | 500 | mA |
| Emitter Current | I_E | -500 | mA |
| Collector Power Dissipation | P_C | 625 | mW |
| Junction Temperature | T_j | 150 | °C |
| Storage Temperature | T_{stg} | -55 ~ 150 | °C |



ELECTRICAL CHARACTERISTICS (Ta=25°C)

| CHARACTERISTIC | SYMBOL | TEST CONDITION | MIN. | TYP. | MAX. | UNIT |
|--------------------------------------|---------------|-----------------------------|------|------|------|------|
| Collector Cut-off Current | I_{CBO} | $V_{CB}=60V, I_E=0$ | - | - | 100 | nA |
| Emitter Cut-off Current | I_{CEO} | $V_{CE}=60V, I_B=0$ | - | - | 100 | nA |
| Collector-Emitter Breakdown Voltage | $V_{(BR)CEO}$ | $I_C=5mA, I_B=0$ | 60 | - | - | V |
| DC Current Gain | $h_{FE(1)}$ | $V_{CE}=1V, I_C=10mA$ | 100 | - | - | |
| | $h_{FE(2)}$ | $V_{CE}=1V, I_C=100mA$ | 100 | - | - | |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | $I_C=100mA, I_B=10mA$ | - | - | 0.25 | V |
| Base-Emitter Voltage | V_{BE} | $V_{CE}=1V, I_C=100mA$ | - | - | 1.2 | V |
| Transition Frequency | f_T | $V_{CE}=1V, I_C=10mA$ | 80 | - | - | MHz |
| Collector Output Capacitance | C_{ob} | $V_{CB}=10V, I_E=0, f=1MHz$ | - | 10 | - | pF |