

NPN SILICON PLANAR MEDIUM POWER TRANSISTOR

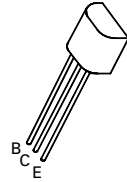
FXT455

ISSUE 1 – SEPT 93

FEATURES

- * 140 Volt V_{CEO}
- * 1 Amp continuous current
- * $P_{tot} = 1$ Watt

REFER TO ZTX455 FOR GRAPHS



**E-Line
T092 Compatible**

ABSOLUTE MAXIMUM RATINGS.

| PARAMETER | SYMBOL | VALUE | UNIT |
|--|----------------|-------------|-------------|
| Collector-Base Voltage | V_{CBO} | 160 | V |
| Collector-Emitter Voltage | V_{CEO} | 140 | V |
| Emitter-Base Voltage | V_{EBO} | 5 | V |
| Peak Pulse Current | I_{CM} | 2 | A |
| Continuous Collector Current | I_C | 1 | A |
| Power Dissipation at $T_{amb}=25^{\circ}C$ | P_{tot} | 1 | W |
| Operating and Storage Temperature Range | $T_j; T_{stg}$ | -55 to +200 | $^{\circ}C$ |

ELECTRICAL CHARACTERISTICS (at $T_{amb} = 25^{\circ}C$).

| PARAMETER | SYMBOL | MIN. | TYP. | MAX. | UNIT | CONDITIONS. |
|---------------------------------------|----------------|------|------|------|---------|---|
| Collector-Base Breakdown Voltage | $V_{(BR)CBO}$ | 160 | | | V | $I_C=100\mu A, I_E=0$ |
| Collector-Emitter Sustaining Voltage | $V_{CEO(sus)}$ | 140 | | | V | $I_C=10mA, I_B=0^*$ |
| Emitter-Base Breakdown Voltage | $V_{(BR)EBO}$ | 5 | | | V | $I_E=100\mu A, I_C=0$ |
| Collector Cut-Off Current | I_{CBO} | | | 0.1 | μA | $V_{CB}=140V, I_E=0$ |
| Emitter Cut-Off Current | I_{EBO} | | | 0.1 | μA | $V_{EB}=4V, I_C=0$ |
| Collector-Emitter Saturation Voltage | $V_{CE(sat)}$ | | | 0.7 | V | $I_C=150mA, I_B=15mA^*$ |
| Static Forward Current Transfer Ratio | h_{FE} | 100 | 10 | 300 | | $I_C=150mA, V_{CE}=10V^*$ $I_C=1A, V_{CE}=10V^*$ |
| Transition Frequency | f_T | 100 | | | MHz | $I_C=50mA, V_{CE}=10V$ $f=100MHz$ |
| Output Capacitance | C_{obo} | | | 15 | pF | $V_{CB}=10V, f=1MHz$ |

*Measured under pulsed conditions. Pulse width=300 μs . Duty cycle $\leq 2\%$



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