

Features

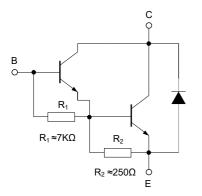
- High DC Current Gain
- Built-in a Damper Diode at E-C
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings @ 25°C Unless Otherwise Specified

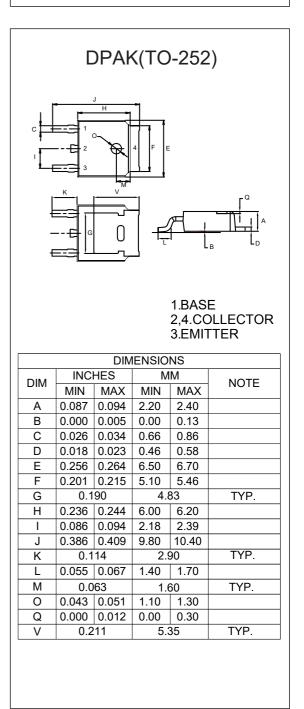
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 83°C/W Junction to Ambient

| Parameter | Symbol | Rating | Unit |
|------------------------------|------------------|--------|------|
| Collector-Base Voltage | V _{CBO} | 100 | V |
| Collector-Emitter Voltage | V _{CEO} | 100 | V |
| Emitter-Base Voltage | V _{EBO} | 5 | V |
| Continuous Collector Current | I _C | 8 | Α |
| Power Dissipation | P _D | 1.5 | W |

Internal Schematic Diagram



Silicon NPN epitaxial planer Transistors



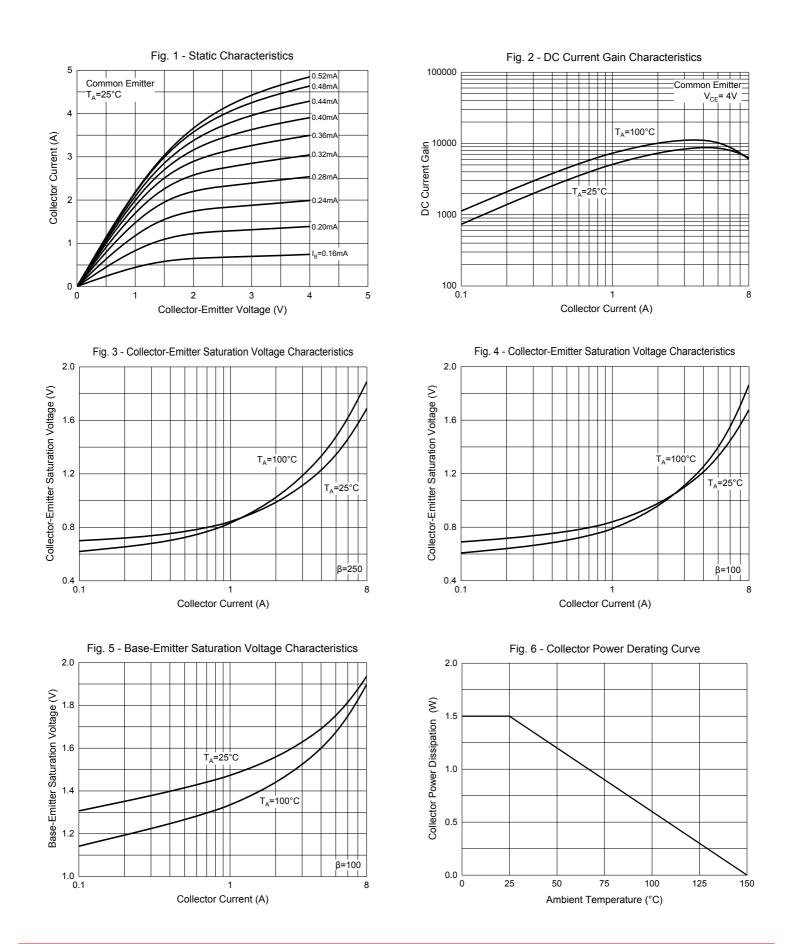


Electrical Characteristics @ $T_A\!\!=\!\!25^\circ\!C$ Unless Otherwise Specified

| Parameter | Symbol | Min | Тур | Max | Units | Conditions |
|--------------------------------------|----------------------|------|-----|-------|-------|--|
| Collector-Base Breakdown Voltage | V _{(BR)CBO} | 100 | | | V | I _C =1mA, I _E =0 |
| Collector-Emitter Breakdown Voltage | V _{(BR)CEO} | 100 | | | V | I _C =30mA, I _B =0 |
| Emitter-Base Breakdown Voltage | V _{(BR)EBO} | 5 | | | V | I _E =3mA, I _C =0 |
| Collector Cutoff Current | I _{CBO} | | | 10 | μA | V _{CB} =100V, I _E =0 |
| Collector Cutoff Current | I _{CEO} | | | 10 | μA | V_{CE} =50V, I _B =0 |
| Emitter Cutoff Current | I _{EBO} | | | 2 | mA | $V_{EB}=5V, I_{C}=0$ |
| DC Current Gain | h _{FE(1)} | 1000 | | 12000 | | V_{CE} =4V, I _C =4A |
| | h _{FE(2)} | 100 | | | | V_{CE} =4V, I _C =8A |
| Collector-Emitter Saturation Voltage | V _{CE(sat)} | | | 2.0 | V | I _C =4A, I _B =16mA |
| | | | | 4.0 | V | I _C =8A, I _B =80mA |
| Base-Emitter Saturation Voltage | V _{BE(sat)} | | | 4.5 | V | I _C =8A, I _B =80mA |
| Base-Emitter Voltage | V _{BE} | | | 2.8 | V | V_{CE} =4V, I _C =4A |
| Output Capacitance | C _{ob} | | | 200 | pF | V_{CB} =10V, I _E =0, f=0.1MHz |



Curve Characteristics





Ordering Information

| Device | Packing | | |
|----------------|-------------------------|--|--|
| Part Number-TP | Tape&Reel: 2.5Kpcs/Reel | | |

Note : Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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