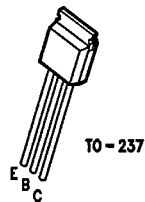


T-33-17



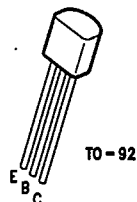
2N6727/PN6727/MPS6727

2N6727



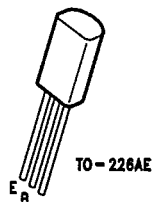
TL/G/10100-8

PN6727



TL/G/10100-1

MPS6727



TL/G/10100-4

PNP General Purpose Amplifier

Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol | Parameter | Min | Max | Units |
|-------------------------------------|--|----------|-----|-----------------|
| OFF CHARACTERISTICS | | | | |
| $V_{(BR)CEO}$ | Collector-Emitter Breakdown Voltage ($I_C = 10 \text{ mAdc}, I_B = 0$) | 40 | | Vdc |
| $V_{(BR)CBO}$ | Collector-Base Breakdown Voltage ($I_C = 100 \mu\text{Adc}, I_E = 0$) | 50 | | Vdc |
| $V_{(BR)EBO}$ | Emitter-Base Breakdown Voltage ($I_E = 100 \mu\text{Adc}, I_C = 0$) | 5.0 | | Vdc |
| I_{CBO} | Collector Cutoff Current ($V_{CB} = 50 \text{ Vdc}, I_E = 0$) | | 0.1 | μAdc |
| I_{EBO} | Emitter Cutoff Current ($V_{EB} = 5.0 \text{ Vdc}, I_C = 0$) | | 0.1 | μAdc |
| ON CHARACTERISTICS (Note 1) | | | | |
| h_{FE} | DC Current Gain ($I_C = 100 \text{ mAdc}, V_{CE} = 1.0 \text{ Vdc}$) ($I_C = 1000 \text{ mAdc}, V_{CE} = 1.0 \text{ Vdc}$) | 60 50 | 250 | |
| $V_{CE(sat)}$ | Collector-Emitter Saturation Voltage ($I_C = 1000 \text{ mAdc}, I_B = 100 \text{ mAdc}$) | | 0.5 | Vdc |
| $V_{BE(on)}$ | Base-Emitter On Voltage ($I_C = 1000 \text{ mAdc}, V_{CE} = 1.0 \text{ Vdc}$) | | 1.2 | Vdc |
| SMALL-SIGNAL CHARACTERISTICS | | | | |
| C_{cb} | Collector-Base Capacitance ($V_{CB} = 10 \text{ Vdc}, I_E = 0, f = 1.0 \text{ MHz}$) | | 30 | pF |
| h_{fe} | Small-Signal Current Gain ($I_C = 50 \text{ mAdc}, V_{CE} = 10 \text{ Vdc}, f = 20 \text{ MHz}$) | 2.5 | 25 | |

Note 1: Pulse Test: Pulse Width $\leq 300 \mu\text{s}$, Duty Cycle $\leq 2.0\%$.

Note 2: For characteristics curves, see Process 78.

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