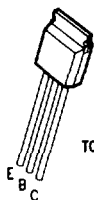




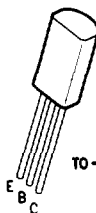
2N6729

MPS6729



TO-237

TL/G/10100-8



TO-226AE

TL/G/10100-4

## PNP General Purpose Amplifier

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

Symbol	Parameter	Min	Max	Units
<b>OFF CHARACTERISTICS</b>				
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage, (Note 1) ( $I_C = 1.0 \text{ mAdc}$ , $I_B = 0$ )	80		Vdc
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage ( $I_C = 100 \mu\text{Adc}$ , $I_E = 0$ )	80		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ( $I_E = 10 \mu\text{Adc}$ , $I_C = 0$ )	5.0		Vdc
$I_{EBO}$	Emitter Cutoff Current ( $V_{EB} = 5.0 \text{ Vdc}$ , $I_E = 0$ )		10	$\mu\text{Adc}$
$I_{CBO}$	Collector Cutoff Current ( $V_{CB} = 60 \text{ Vdc}$ , $I_C = 0$ )		0.1	$\mu\text{Adc}$
<b>ON CHARACTERISTICS (Note 1)</b>				
$h_{FE}$	DC Current Gain ( $I_C = 50 \text{ mAdc}$ , $V_{CE} = 1.0 \text{ Vdc}$ ) ( $I_C = 250 \text{ mAdc}$ , $V_{CE} = 1.0 \text{ Vdc}$ )	80 50	250	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ( $I_C = 250 \text{ mAdc}$ , $I_B = 10 \text{ mAdc}$ )		0.5	Vdc
$V_{BE(on)}$	Base-Emitter On Voltage ( $I_C = 250 \text{ mAdc}$ , $V_{CE} = 1.0 \text{ Vdc}$ )		1.2	Vdc
<b>SMALL-SIGNAL CHARACTERISTICS</b>				
$C_{cb}$	Collector-Base Capacitance ( $V_{CB} = 10 \text{ Vdc}$ , $I_E = 0$ , $f = 1.0 \text{ MHz}$ )		30	pF
$h_{fe}$	Small-Signal Current Gain ( $I_C = 200 \text{ mAdc}$ , $V_{CE} = 5.0 \text{ Vdc}$ , $f = 20 \text{ MHz}$ )	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 79.