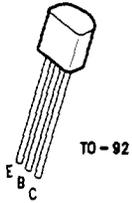
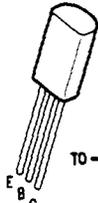


MPSA56


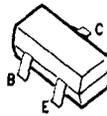
TO-92

TL/G/10100-1

MPSW56


TO-226AE

TL/G/10100-4

MMBTA56

 TO-236
(SOT-23)

TL/G/10100-5

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, (Note 1) ($I_C = 1.0 \text{ mAdc}$, $I_B = 0$)	80		Vdc
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage ($I_E = 100 \mu\text{Adc}$, $I_C = 0$)	4.0		Vdc
I_{CEO}	Collector Cutoff Current ($V_{CE} = 60 \text{ Vdc}$, $I_B = 0$)		0.1	μAdc
I_{CBO}	Collector Cutoff Current ($V_{CB} = 80 \text{ Vdc}$, $I_E = 0$)		0.1	μAdc
ON CHARACTERISTICS				
h_{FE}	DC Current Gain ($I_C = 10 \text{ mAdc}$, $V_{CE} = 1.0 \text{ Vdc}$) ($I_C = 100 \text{ mAdc}$, $V_{CE} = 1.0 \text{ Vdc}$)	50 50		
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage ($I_C = 100 \text{ mAdc}$, $I_B = 10 \text{ mAdc}$)		0.25	Vdc
$V_{BE(on)}$	Base-Emitter On Voltage ($I_C = 100 \text{ mAdc}$, $V_{CE} = 1.0 \text{ Vdc}$)		1.2	Vdc
SMALL-SIGNAL CHARACTERISTICS				
f_T	Current-Gain—Bandwidth Product ($I_C = 100 \text{ mAdc}$, $V_{CE} = 1.0 \text{ Vdc}$, $f = 100 \text{ MHz}$)	50		MHz

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

Note 2: For characteristics curves, see Process 67.