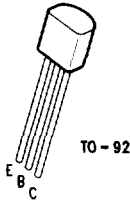


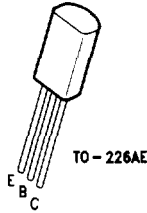


MPSA06



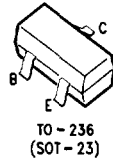
TL/G/10100-1

MPSW06



TL/G/10100-4

MMBTA06



TL/G/10100-5

NPN 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-Emmitter Breakdown Voltage, (Note 1) ($I_C = 1.0 \text{ mAdc}, I_B = 0$)	80		Vdc
$V_{(BR)EBO}$	Emmitter-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-Emmitter Saturation Voltage ($I_C = 100 \text{ mAdc}, I_B = 10 \text{ mAdc}$)		0.25	Vdc
$V_{BE(on)}$	Base-Emmitter 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 ($I_C = 10 \text{ mA}, V_{CE} = 10\text{V}, f = 100 \text{ MHz}$)	100		MHz

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

Note 2: For characteristics curves, see Process 12.