

ELECTRICAL CHARACTERISTICS:
(25°C Case Temperature Unless Otherwise Noted)

SYMBOL	CHARACTERISTIC	TEST CONDITIONS	VALUE		Units
			Min.	Max.	
$V_{CE(sus)}^*$	Collector-Emitter Sustaining Voltage	$I_C = 100 \text{ mAdc}$, $I_B = 0$ (Note 1)	60	----	Vdc
I_{EB0}^*	Emitter Base Cutoff Current	$V_{EB} = 7.0 \text{ Vdc}$	----	100	nAdc
I_{CEX}^*	Collector Cutoff Current	$V_{CE} = 60 \text{ Vdc}$, $V_{BE(off)} = 1.5 \text{ Vdc}$	----	100	nAdc
		$V_{CE} = 40 \text{ Vdc}$, $V_{BE(off)} = 1.5 \text{ Vdc}$, $T_C = 150^\circ\text{C}$	----	0.5	mAdc
I_{CEO}^*	Collector-Emitter Cutoff Current	$V_{CE} = 40 \text{ Vdc}$, $I_B = 0$	----	1.0	μAdc
I_{CBO}^*	Collector Base Cutoff Current	$V_{CB} = 60 \text{ Vdc}$, $I_E = 0$	----	100	nAdc
h_{FE}^*	DC Current Gain (Note 1)	$I_C = 100 \text{ mAdc}$, $V_{CE} = 1.0 \text{ Vdc}$	40	----	----
		$I_C = 250 \text{ mAdc}$, $V_{CE} = 1.0 \text{ Vdc}$	30	100	----
		$I_C = 500 \text{ mAdc}$, $V_{CE} = 1.0 \text{ Vdc}$	20	----	----
		$I_C = 1.0 \text{ Adc}$, $V_{CE} = 1.0 \text{ Vdc}$	10	----	----
$V_{CE(sat)}^*$	Collector-Emitter Saturation Voltage (Note 1)	$I_C = 1.0 \text{ Adc}$, $I_B = 125 \text{ mAdc}$	----	0.6	Vdc
V_{BE}^*	Base-Emitter Voltage (Note 1)	$I_C = 250 \text{ mAdc}$, $V_{CE} = 1.0 \text{ Vdc}$	----	1.0	Vdc
f_T^*	Current Gain Bandwidth Product	$I_C = 100 \text{ mAdc}$, $V_{CE} = 10 \text{ Vdc}$, $f = 1.0 \text{ MHz}$	3.0	----	MHz
h_{fe}^*	Small-Signal Current Gain	$I_C = 50 \text{ mAdc}$, $V_{CE} = 10 \text{ Vdc}$, $f = 1.0 \text{ kHz}$	25	----	----
C_{ob}^*	Common Base Output Capacitance	$V_{CB} = 10 \text{ Vdc}$, $I_C = 0$, $f = 100 \text{ kHz}$	----	100	pF

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

* Indicates JEDEC registered data.

PACKAGE MECHANICAL DATA:

