

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise stated)

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
$V_{CEO(sus)}$ Collector – Emitter Sustaining Voltage	$I_C = 10\text{mA}$ $I_B = 0$	200			V
$V_{CER(sus)}$ Collector – Emitter Sustaining Voltage	$I_C = 10\text{mA}$ $R_{EB} = 100\Omega$	250			
I_{CES} Collector – Emitter Cut-off Current	$V_{CE} = 60\text{V}$ $I_B = 0$			0.7	mA
	$V_{CE} = 80\text{V}$ $T_C = 150^\circ\text{C}$			0.7	
I_{EBO} Emitter Base Cut-off Current	$V_{EB} = 6\text{V}$ $I_E = 0$			0.75	mA
$V_{CE(sat)}$ Collector – Emitter Saturation Voltage	$I_C = 1.0\text{A}$ $I_B = 0.1\text{A}$			2.5	V
$V_{BE(sat)}$ Base – Emitter On Voltage	$I_C = 1.0\text{A}$ $I_B = 0.3\text{A}$			1.5	
h_{FE} DC Current Gain	$I_C = 0.5\text{mA}$ $V_{CE} = 2\text{V}$	40		160	—
C_{obo} Output Capacitance	$V_{CB} = 10\text{V}$ $f = 100\text{KHz}$			50	pF
$[h_{fe}]$ Small Signal Current Gain	$V_{CE} = 10\text{V}$ $I_C = 0.5\text{A}$ $f = 10\text{MHz}$	40			—
t_{on} Turn on time	$I_C = 0.5\text{A}$ $V_{CC} = 30\text{V}$ $I_{B1} = - I_{B2} = 50\text{mA}$			0.25	μsec
t_{off} Turn off time	$I_C = 0.5\text{A}$ $V_{CC} = 30\text{V}$ $I_{B1} = - I_{B2} = 50\text{mA}$			2.5	μsec

1) f_t is defined as the frequency at which $|h_{fe}|$ extrapolates to unity.