

Electrical Characteristics (Ta = 25°C)

Characteristic	Symbol	Test Circuit	Test Condition	Min	Typ.	Max	Unit
Collector cut-off current	I_{CBO}	—	$V_{CB} = -30V, I_E = 0$	—	—	-0.1	μA
Emitter cut-off current	I_{EBO}	—	$V_{EB} = -5V, I_C = 0$	-1.92	-2.5	-3.57	mA
Collector-emitter breakdown voltage	$V_{(BR)CES}$	—	$I_C = -10mA$	-30	—	—	V
DC current gain	$h_{FE} (1)$	—	$V_{CE} = -2V, I_C = -0.5A$	100	—	320	—
	$h_{FE} (2)$		$V_{CE} = -2V, I_C = -2.0A$	50	—	—	
Collector-emitter saturation voltage	$V_{CE} (sat)$	—	$I_C = -1A, I_B = -0.05A$	—	—	-0.5	V
Base-emitter saturation voltage	$V_{BE} (sat)$	—	$I_C = -1A, I_B = -0.05A$	—	—	-1.2	V
Transition frequency	f_T	—	$V_{CE} = -2V, I_C = -0.5A$	—	120	—	MHz
Collector output capacitance	C_{ob}	—	$V_{CB} = -10V, I_E = 0, f = 1 MHz$	—	40	—	pF
Resistor	R	—	—	1.4	2.0	2.6	k Ω