

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

Parameter		Test Conditions		Min.	Typ.	Max.	Unit
I_{CBO}	Collector Cutoff Current	$V_{CB}=15V$	$I_E=0$			10	nA
			$T_a=150^{\circ}C$			1	μA
$V_{(BR)CBO}$	Collector – Base Breakdown Voltage	$I_C=1\mu A$	$I_E=0$	30			V
$V_{CEO(sus)}$	Collector – Emitter Sustaining Voltage	$I_C=3mA$	$I_B=0$	15			
$V_{(BR)EBO}$	Emitter – Base Breakdown Voltage	$I_E=10\mu A$	$I_C=0$	3			
$V_{CE(sat)}$	Collector – Emitter Saturation Voltage	$I_C=10mA$	$I_B=1mA$			0.4	
$V_{BE(sat)}$	Base – Emitter Saturation Voltage	$I_C=10mA$	$I_B=1mA$			1.0	
h_{FE}	DC Current Gain	$I_C=3mA$	$V_{CE} = 1V$	20	50		—
f_T	Transition Frequency	$I_C=4mA$	$V_{CE} = 10V$ $f=100MHz$	600	900		MHz
C_{EBO}	Emitter – Base Capacitance	$I_C=0$	$V_{EB} = 0.5V$ $f=1MHz$			2	pF
C_{CBO}	Collector – Base Capacitance	$I_E=0$ $f=1MHz$	$V_{CE} = 0V$		1.8	3	
			$V_{CE} = 10V$		1	1.7	
NF	Noise Figure	$I_E=1mA$ $R_g=400$	$V_{CE} = 6V$ $f=60MHz$			6	dB
G_{pe}	Power Gain	$I_C=6mA$ $R_g=50$	$V_{CE} = 12V$ $f=200MHz$	15	21		

* Pulsed: Pulse Duration = 300 μs , duty cycle = 1.5%