

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

Parameter	Test Conditions	Min.	Typ.	Max.	Unit	
ELECTRICAL CHARACTERISTICS						
$V_{CEO(sus)}$	Collector – Emitter Sustaining Voltage	$I_C = 10mA$	100		V	
$V_{(BR)CBO}$	Collector – Base Breakdown Voltage	$I_C = 1mA$	250			
$V_{(BR)EBO}$	Emitter – Base Breakdown Voltage	$I_E = 1mA$	10			
I_{CBO}	Collector – Base Cut-Off Current	$V_{CB} = 250V$		10	μA	
			$T_C = 125^{\circ}C$	100		
I_{CEO}	Collector – Emitter Cut-Off Current	$I_B = 0$	$V_{CE} = 100V$	100	μA	
I_{EBO}	Emitter Cut-Off Current	$V_{EB} = 9V$	$I_C = 0$		10	
				$T_C = 125^{\circ}C$	100	
h_{FE}^*	DC Current Gain	$I_C = 0.3A$	$V_{CE} = 4V$	30	—	
		$I_C = 3A$	$V_{CE} = 4V$	25		
		$I_C = 5A$	$V_{CE} = 4V$	5		
			$T_C = 125^{\circ}C$			
$V_{CE(sat)}^*$	Collector – Emitter Saturation Voltage	$I_C = 1A$	$I_B = 0.1A$		0.2	
		$I_C = 3A$	$I_B = 0.3A$		0.5	
		$I_C = 8A$	$I_B = 0.8A$		0.8	
$V_{BE(sat)}^*$	Base – Emitter Saturation Voltage	$I_C = 3A$	$I_B = 0.3A$		1.0	
		$I_C = 8A$	$I_B = 0.8A$		1.5	
DYNAMIC CHARACTERISTICS						
f_t	Transition Frequency	$I_C = 0.2A$	$V_{CE} = 4V$		20	MHz
C_{ob}	Output Capacitance	$V_{CB} = 10V$	$f = 1MHz$		100	pF

* Pulse test $t_p = 300\mu s$, $\delta < 2\%$



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