

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	$I_C = 10mA$	500		V		
$V_{(BR)CBO}$	Collector – Base Breakdown Voltage	$I_C = 1mA$	1000				
$V_{(BR)EBO}$	Emitter – Base Breakdown Voltage	$I_E = 1mA$	10				
I_{CBO}	Collector – Base Cut-Off Current	$V_{CB} = 1000V$		10	μA		
			$T_C = 125^{\circ}C$	100			
I_{CEO}	Collector – Emitter Cut-Off Current	$I_B = 0$	$V_{CE} = 500V$	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	$I_C = 0.1A$	$V_{CE} = 5V$	20	30	—	
		$I_C = 0.5A$	$V_{CE} = 5V$	12	15		
		$I_C = 1A$	$V_{CE} = 1V$	5	8		
$V_{CE(sat)}^*$	Collector – Emitter Saturation Voltage	$I_C = 100mA$	$I_B = 20mA$		0.05	0.1	V
		$I_C = 0.5A$	$I_B = 0.1A$		0.15	0.2	
		$I_C = 1A$	$I_B = 0.2A$		0.3	0.5	
$V_{BE(sat)}^*$	Base – Emitter Saturation Voltage	$I_C = 0.5A$	$I_B = 0.1A$		0.8	1.0	V
		$I_C = 1A$	$I_B = 0.2A$		0.9	1.1	
DYNAMIC CHARACTERISTICS							
f_t	Transition Frequency	$I_C = 0.2A$	$V_{CE} = 4V$		20	MHz	
C_{ob}	Output Capacitance	$V_{CB} = 20V$	$f = 1MHz$		20	pF	

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



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