

Electrical Characteristics: ($T_A = +25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
OFF Characteristics						
Collector-Emitter Sustaining Voltage	$V_{CE(\text{sus})}$	$I_C = 10\text{mA}, I_B = 0$, Note 1	150	—	—	V
Collector Cutoff Current	I_{CEO}	$V_{CE} = 150\text{V}, I_B = 0$	—	—	0.1	mA
	I_{CBO}	$V_{CE} = 150\text{V}, I_E = 0$	—	—	10	μA
Emitter Cutoff Current	I_{EBO}	$V_{CE} = 150\text{V}, I_C = 0$	—	—	10	μA
ON Characteristics (Note 1)						
DC Current Gain	h_{FE}	$V_{CE} = 2\text{V}, I_C = 0.1\text{A}$	40	—	—	
		$V_{CE} = 2\text{V}, I_C = 2\text{A}$	40	—	—	
		$V_{CE} = 2\text{V}, I_C = 0.1\text{A}$	40	—	—	
		$V_{CE} = 2\text{V}, I_C = 0.1\text{A}$	20	—	—	
DC Current Gain Linearity	h_{FE}	V_{CE} from 2V to 20V, I_C from 0.1A to 3A	—	2	—	
		NPN to PNP	—	3	—	
Collector-Emitter Saturation Voltage	$V_{CE(\text{sat})}$	$I_C = 1\text{A}, I_B = 0.1\text{A}$	—	—	0.5	V
Base-Emitter ON Voltage	$V_{BE(\text{on})}$	$V_{CE} = 2\text{V}, I_C = 1\text{A}$	—	—	1	V
Dynamic Characteristics						
Current Gain-Bandwidth Product	f_t	$V_{CE} = 10\text{V}, I_C = 500\text{mA},$ $f_{\text{test}} = 10\text{MHz}$, Note 2	30	—	—	MHz

Note 1. Pulse Test: Pulse Width $\leq 300\mu\text{s}$, Duty Cycle $\leq 2\%$.

Note 2. $f_T = |h_{fe}| \cdot f_{\text{test}}$

