



ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		ICBO	V <sub>CB</sub> = 500V, I <sub>E</sub> = 0	—	—	100	μA
Emitter Cut-off Current		IEBO	V <sub>EB</sub> = 7V, I <sub>C</sub> = 0	—	—	1	mA
Collector-Base Breakdown Voltage		V <sub>(BR)CBO</sub>	I <sub>C</sub> = 1mA, I <sub>B</sub> = 0	600	—	—	V
Collector-Emitter Breakdown Voltage		V <sub>(BR)CEO</sub>	I <sub>C</sub> = 10mA, I <sub>B</sub> = 0	400	—	—	V
DC Current Gain		h <sub>FE</sub>	V <sub>CE</sub> = 5V, I <sub>C</sub> = 0.1A	20	—	—	
			V <sub>CE</sub> = 5V, I <sub>C</sub> = 1A	8	—	—	
Collector-Emitter Saturation Voltage		V <sub>CE(sat)</sub>	I <sub>C</sub> = 1A, I <sub>B</sub> = 0.2A	—	—	1.0	V
Base-Emitter Saturation Voltage		V <sub>BE(sat)</sub>	I <sub>C</sub> = 1A, I <sub>B</sub> = 0.2A	—	—	1.5	V
Switching Time	Rise Time	t <sub>r</sub>	<p>20 μs              INPUT <math>I_{B2}</math> OUTPUT  <math>I_{B1}</math> <math>I_{B1}</math> <math>I_{B2}</math>  <math>V_{CC} \cong 200\text{ V}</math>  <math>250\Omega</math></p>	—	—	1.0	μs
	Storage Time	t <sub>stg</sub>		—	—	2.5	
	Fall Time	t <sub>f</sub>		I <sub>B1</sub> = -I <sub>B2</sub> = 0.08A DUTY CYCLE ≤ 1%	—	—	

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