

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	$V_{CB} = 45V, I_E = 0$	—	—	100	μA
Emitter Cut-off Current		I_{EBO}	$V_{EB} = 6V, I_C = 0$	—	—	2.5	mA
Collector-Emitter Breakdown Voltage		$V_{(BR) CEO}$	$I_C = 10mA, I_B = 0$	55	65	75	V
DC Current Gain		$h_{FE} (1)$	$V_{CE} = 3V, I_C = 1.5A$	2000	—	15000	
		$h_{FE} (2)$	$V_{CE} = 3V, I_C = 3A$	1000	—	—	
Collector-Emitter Saturation Voltage		$V_{CE} (sat) (1)$	$I_C = 1.5A, I_B = 3mA$	—	—	1.5	V
		$V_{CE} (sat) (2)$	$I_C = 3A, I_B = 12mA$	—	—	2.0	
Base-Emitter Saturation Voltage		$V_{BE} (sat)$	$I_C = 1.5A, I_B = 3mA$	—	—	2.0	V
Switching Time	Turn-on Time	t_{on}	<p>$I_{B1} = -I_{B2} = 3mA,$ $DUTY\ CYCLE \leq 1\%$ $V_{CC} = 30V$</p>	—	1.0	—	μs
	Storage Time	t_{stg}		—	5.0	—	
	Fall Time	t_f		—	2.0	—	



