ELECTRICAL CHARACTERISTICS (con't)

Characteristics	Symbol	Min.	Max.	Unit
ON CHARACTERISTICS (2)				
Forward-Current Transfer Ratio I_C = -1.0 Adc, V_{CE} = -3.0 Vdc I_C = -10 Adc, V_{CE} = -3.0 Vdc I_C = -20 Adc, V_{CE} = -3.0 Vdc	h_{FE}	1,500 1,250 300	18,000	
Collector-Emitter Saturation Voltage I_C = -20 Adc, I_B = -200 mAdc I_C = -10 Adc, I_B = -40 mAdc	$V_{CE(sat)}$		-3.0 -2.0	Vdc
Base-Emitter Saturation Voltage I_C = -20 Adc, I_B = -200 mAdc	$V_{BE(sat)}$		-4.0	Vdc
Base-Emitter Voltage I_C = -10 Adc, V_{CE} = -3.0 Vdc	$V_{BE(on)}$		-2.8	Vdc
DYNAMIC CHARACTERISTICS				
Magnitude of Common Emitter Small-Signal Short-Circuit Forward Current Transfer Ratio I_C = -10 Adc, V_{CE} = -3.0 Vdc f = 1.0 MHz	$\lvert h_{fe} \rvert$	8.0	80	
Small-Signal Short-Circuit Forward Current Transfer Ratio I_C = -10 Adc, V_{CE} = -3.0 Vdc	h_{fe}	300		
Output Capacitance V_{CB} = -10 Vdc, I_E = 0, 100 kHz ≤ f ≤ 1.0 MHz	C_{obo}		400	pF
SWITCHING CHARACTERISTICS				
Turn-On Time V_{CC} = -30 Vdc; I_C = -10 Adc; I_B = -40 mAdc	t_{on}		2.0	µs
Turn-Off Time V_{CC} = -30 Vdc; I_C = -10 Adc; I_{B1} = I_{B2} = -40 mAdc	t_{off}		10	µs

SAFE OPERATING AREA

DC Tests

T_C = +25^{0}C, 1 Cycle, t = 1.0 s

Test 1

V_{CE} = -8.75 Vdc, I_C = -20 Adc — All Types

Test 2

V_{CE} = -30 Vdc, I_C = -5.8 Adc — All Types

Test 3

V_{CE} = -80 Vdc, I_C = -100 mAdc — 2N6286

V_{CE} = -100 Vdc, I_C = -100 mAdc — 2N6287

(2) Pulse Test: Pulse Width = 300µs, Duty Cycle ≤ 2.0%.