

ELECTRICAL CHARACTERISTICS (con't)

Characteristics	Symbol	Min.	Max.	Unit
Collector-Base Cutoff Current V _{CB} = 60 Vdc V _{CB} = 80 Vdc	I _{CBO}		5.0 5.0	mAdc
Emitter-Base Cutoff Current V _{EB} = 7.0 Vdc	I _{EBO}		5.0	mAdc

ON CHARACTERISTICS ⁽³⁾

Forward-Current Transfer Ratio I _C = 1.0 Adc, V _{CE} = 2.0 Vdc I _C = 3.0 Adc, V _{CE} = 2.0 Vdc I _C = 5.0 Adc, V _{CE} = 2.0 Vdc I _C = 10 Adc, V _{CE} = 4.0 Vdc	h _{FE}	50 30 10 5.0	150 120	
Collector-Emitter Saturation Voltage I _C = 5.0 Adc, I _B = 0.5 Adc I _C = 10 Adc, I _B = 2.0 Adc	V _{CE(sat)}		1.0 2.5	Vdc
Base-Emitter Saturation Voltage I _C = 5.0 Adc, I _B = 0.5 Adc I _C = 10 Adc, I _B = 2.0 Adc	V _{BE(sat)}		1.5 3.0	Vdc

DYNAMIC CHARACTERISTICS

Magnitude of Common Emitter Small-Signal Short-Circuit Forward Current Transfer Ratio I _C = 0.5 Adc, V _{CE} = 10 Vdc, f = 1.0 MHz	h _{fe}	4.0	20	
Small-Signal Short-Circuit Forward Current Transfer Ratio I _C = 0.5 Adc, V _{CE} = 10 Vdc, f = 1.0 kHz	h _{fe}	30	300	
Output Capacitance V _{CB} = 10 Vdc, I _E = 0, f = 1.0 MHz	C _{obo}		500	pF

SAFE OPERATING AREA**DC Tests**T_C = +25°C, 1 Cycle, t ≥ 1.0 s**Test 1**V_{CE} = 15 Vdc, I_C = 10 Adc**Test 2**V_{CE} = 40 Vdc, I_C = 3.75 Adc**Test 3**V_{CE} = 55 Vdc, I_C = 0.9 Adc 2N3791V_{CE} = 65 Vdc, I_C = 0.9 Adc 2N3792

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