

ELECTRICAL CHARACTERISTICS (con't)

Characteristics	Symbol	Min.	Max.	Unit
ON CHARACTERISTICS ⁽³⁾				
Forward-Current Transfer Ratio I _C = 0.1 mAdc, V _{CE} = 10 Vdc I _C = 10 mAdc, V _{CE} = 10 Vdc I _C = 150 mAdc, V _{CE} = 10 Vdc	h _{FE}	20 35 40	120	
Collector-Emitter Saturation Voltage I _C = 150 mAdc, I _B = 15 mAdc	V _{CE(sat)}		5.0	Vdc
Base-Emitter Voltage I _C = 150 mAdc, I _B = 15 mAdc	V _{BE(sat)}		1.3	Vdc

DYNAMIC CHARACTERISTICS

Magnitude of Common Emitter Small-Signal Short-Circuit Forward Current Transfer Ratio I _C = 50 mAdc, V _{CE} = 10 Vdc, f = 20 MHz	h _{fe}	3.0	10	
Small-Signal Short-Circuit Forward Current Transfer Ratio V _{CE} = 5.0 Vdc, I _C = 1.0 mAdc V _{CE} = 10 Vdc, I _C = 5.0 mAdc, f = 1.0 kHz	h _{fe}	35 45	100	
Small-Signal Short-Circuit Input Impedance V _{CB} = 10 Vdc, I _C = 5.0 mAdc	h _{ib}	4.0	8.0	Ω
Small-Signal Short-Circuit Output Admittance V _{CB} = 10 Vdc, I _C = 5.0 mAdc	h _{ob}		0.5	μΩ
Output Capacitance V _{CB} = 10 Vdc, I _E = 0, 100 kHz ≤ f ≤ 1.0 MHz	C _{obo}	2	15	pF

SWITCHING CHARACTERISTICS

Turn-On Time + Turn-Off Time (See Figure 3 of MIL-PRF-19500/182)	t _{on} + t _{off}		30	ns
---	------------------------------------	--	----	----

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