Characteristics		Symbol	Min.	Max.	Unit
ON CHARACTERISTICS (3)					
Forward-Current Transfer Ratio					
I_C = 10 µAdc, V_{CE} = 10 Vdc		h_{FE}	20		
I_C = 150 mAdc, V_{CE} = 10 Vdc			100	300	
I_C = 500 mAdc, V_{CE} = 10 Vdc	2N1711, S		50		
Collector-Emitter Saturation Voltage					
I_C = 150 mAdc, I_B = 15 mAdc	2N1711, S	$V_{CE(sat)}$		1.5	Vdc
	2N1890, S			5.0	
I_C = 50 mAdc, I_B = 5.0 mAdc	2N1890, S			1.2	
Base-Emitter Saturation Voltage					
I_C = 150 mAdc, I_B = 15 mAdc		$V_{BE(sat)}$		1.3	Vdc
I_C = 50 mAdc, I_B = 5.0 mVdc	2N1890, S			0.9	
DYNAMIC CHARACTERISTICS					
Small-Signal Short-Circuit Forward-Current Transfer Ratio					
I_C = 1.0 mAdc, V_{CE} = 5.0 Vdc		h_{fe}	80	200	
I_C = 5.0 mAdc, V_{CE} = 10 Vdc			90	270	
Magnitude of Common Emitter Small-Signal Short-Circuit Forward-Current Transfer Ratio		$\lvert h_{fe} \rvert$			
I_C = 50 mAdc, V_{CE} = 10 Vdc; f = 20 MHz			3.5	12	
Small-Signal Short-Circuit Input Impedance					Ω
I_C = 5.0 mAdc, V_{CB} = 10 Vdc		h_{ib}	4.0	8.0	
Small-Signal Short-Circuit Output Admittance					
I_C = 5.0 mAdc, V_{CB} = 10 Vdc		h_{ob}			µΩ
	2N1711, S			1.0	
	2N1890, S			.03	
Output Capacitance					
V_{CB} = 10 Vdc, I_E = 0, 100 kHz ≤ f ≤ 1.0 MHz	2N1711, S	C_{obo}	8.0	25	pF
	2N1890, S		5.0	15	
SWITCHING CHARACTERISTICS					
Turn-On Time + Turn-Off Time		$^{t}on + {}^{t}off$			ηs
(See figure 1 of MIL-PRF-19500/225)				30	

(3) Pulse Test: Pulse Width 250 to 350µs, Duty Cycle ≤ 2.0%.