

ELECTRICAL CHARACTERISTICS (con't)

Characteristics	Symbol	Min.	Max.	Unit
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ON CHARACTERISTICS ⁽³⁾

Forward-Current Transfer Ratio $I_C = 3.0 \text{ Adc}, V_{CE} = 4.0 \text{ Vdc}$	h_{FE}	20	70	
Collector-Emitter Saturation Voltage $I_C = 3.0 \text{ Adc}, I_B = 300 \text{ mAdc}$	$V_{CE(sat)}$		1.0	Vdc
Base-Emitter Voltage $I_C = 3.0 \text{ Adc}, V_{CE} = 4.0 \text{ Vdc}$	V_{BE}		1.7	Vdc

DYNAMIC CHARACTERISTICS

Small-Signal Short-Circuit Forward Current Transfer Ratio $I_C = 3.0 \text{ Adc}, V_{CE} = 4.0 \text{ Vdc}, f = 100 \text{ kHz}$	$ h_{fe} $	1.0		
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SAFE OPERATING AREA**DC Tests** $T_C = +25^\circ\text{C}$, 1 Cycle, $t = 1.0 \text{ s}$ **Test 1** $V_{CE} = 11.7 \text{ Vdc}, I_C = 10 \text{ Adc}$ **Test 2** $V_{CE} = 78 \text{ Vdc}, I_C = 1.5 \text{ Adc}$ **Test 3** $V_{CE} = 140 \text{ Vdc}, I_C = 0.5 \text{ Adc}$ (3) Pulse Test: Pulse Width = 300 μs , Duty Cycle $\leq 2.0\%$.