

Electrical Characteristics (Cont'd): ($T_A = +25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
ON Characteristics (Note 2)						
DC Current Gain	h_{FE}	$I_C = 1\text{mA}, V_{CE} = 10\text{V}$	25	–	–	
		$I_C = 10\text{mA}, V_{CE} = 10\text{V}$	40	–	–	
		$I_C = 30\text{mA}, V_{CE} = 10\text{V}$	25	–	–	
Collector–Emitter Saturation Voltage MPSA92	$V_{CE(sat)}$	$I_C = 20\text{mA}, I_B = 2\text{mA}$	–	–	0.5	V
MPSA93			–	–	0.4	V
Base–Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 20\text{mA}, I_B = 2\text{mA}$	–	–	0.9	V
Small–Signal Characteristics						
Current Gain – Bandwidth Product	f_T	$I_C = 10\text{mA}, V_{CE} = 20\text{V}, f = 100\text{MHz}$	50	–	–	MHz
Collector–Base Capacitance MPSA92	C_{cb}	$V_{CB} = 20\text{V}, I_E = 0, f = 1\text{MHz}$	–	–	6	pF
MPSA93			–	–	8	pF

Note 1. Pulse Test: Pulse Width $\leq 300\mu\text{s}$, Duty Cycle $\leq 2\%$.

