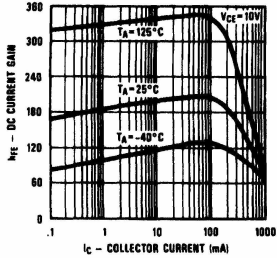


TL/G/10034-16

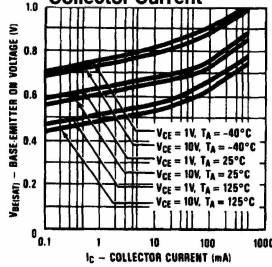
ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$)

Symbol	Conditions	Min	Typ	Max	Units
t_{ON}	$I_C = 150 \text{ mA}$, $I_{B1} = 15 \text{ mA}$		35		ns
t_{OFF}	$I_C = 150 \text{ mA}$, $I_{B2} = 15 \text{ mA}$		250		ns
h_{fe}	$I_C = 20 \text{ mA}$, $V_{CE} = 20\text{V}$, $f = 100 \text{ MHz}$	2.0	3.0		
NF (spot)	$I_C = 100 \mu\text{A}$, $V_{CE} = 10\text{V}$, $R_S = 1 \text{ k}\Omega$, $f = 1 \text{ kHz}$		2.0		dB
C_{ob}	$V_{CB} = 10\text{V}$, $f = 1 \text{ MHz}$		4.5	8.0	pF
C_{ib}	$V_{EB} = 0.5\text{V}$, $f = 1 \text{ MHz}$			35	pF
h_{FE}	$V_{CE} = 1.0\text{V}$, $I_C = 1.0 \text{ mA}$ $V_{CE} = 1.0\text{V}$, $I_C = 10 \text{ mA}$ $V_{CE} = 1.0\text{V}$, $I_C = 100 \text{ mA}$ $V_{CE} = 1.0\text{V}$, $I_C = 500 \text{ mA}$	30 40 50 25	150	300	
$V_{CE(SAT)}$	$I_C = 150 \text{ mA}$, $I_B = 15 \text{ mA}$ $I_C = 500 \text{ mA}$, $I_B = 50 \text{ mA}$			0.2 0.5	V V
$V_{BE(SAT)}$	$I_C = 150 \text{ mA}$, $I_B = 15 \text{ mA}$ $I_C = 500 \text{ mA}$, $I_B = 50 \text{ mA}$			1.0 1.2	V V
BV_{CBO}	$I_C = 100 \mu\text{A}$	60			V
BV_{CEO}	$I_C = 10 \text{ mA}$	35			V
BV_{EBO}	$I_C = 10 \mu\text{A}$	6.0			V
I_{CBO}	$V_{CB} = 40\text{V}$			100	nA
I_{EBO}	$V_{EB} = 4\text{V}$			100	nA

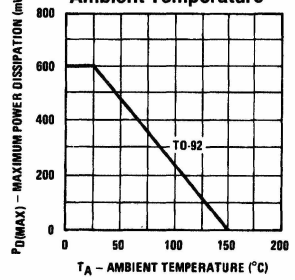
DC Current Gain vs Collector Current



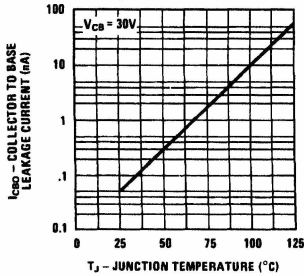
Base-Emitter ON Voltage vs Collector Current



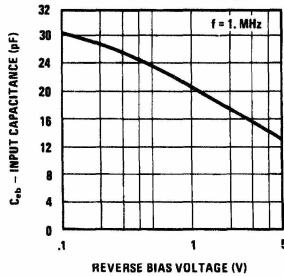
Maximum Power Dissipation vs Ambient Temperature



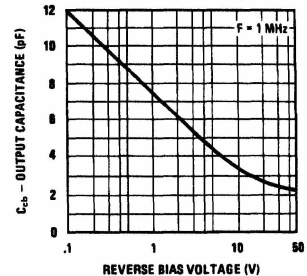
Collector-Base Diode Reverse Current vs Temperature



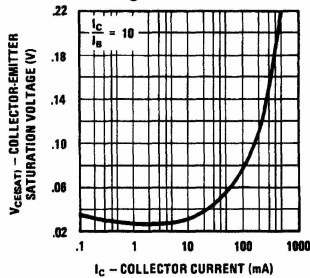
Input Capacitance vs Reverse Bias Voltage



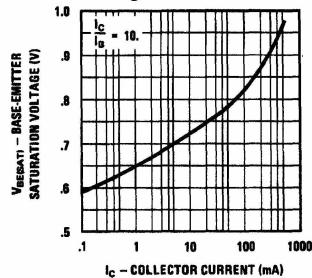
Output Capacitance vs Reverse Bias Voltage



Collector-Emitter Saturation Voltage vs Collector Current



Base-Emitter Saturation Voltage vs Collector Current



TL/G/10034-17

TL/G/10034-18