ELECTRICAL CHARACTERISTICS (T_A= 25°C Unless otherwise noted)

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)		1.2	1.4	V	I_F = 16mA
	Reverse Current (I_R)			10	µA	V_R=6V
Output	Collector-emitter Breakdown (BV_{CEO})	30			V	I_C = 1mA (note 2)
	Collector-base Breakdown (BV_{CBO})	70			V	I_C = 100µA
	Emitter-collector Breakdown (BV_{ECO})	6			V	I_E = 100µA
	Collector-emitter Dark Current (I_{CEO})			50	nA	V_{CE}=10V
Coupled	On-state Collector Current ($I_C$on)					
	TIL111, TIL114	20			%	16mA I_F, 0.4V V_{CE}
	TIL116	20			%	10mA I_F, 10V V_{CE}
	TIL117	50			%	10mA I_F, 10V V_{CE}
	Collector-emitter Saturation Voltage $V_{CE(SAT)}$					
	TIL111, TIL114			0.4	V	16mA I_F, 2mA I_C
	TIL116			0.4	V	15mA I_F, 2.2mA I_C
	TIL117			0.4	V	10mA I_F, 0.5mA I_C
	Input to Output Isolation Voltage V_{ISO}	5300			V_{RMS}	See note 1
		7500			V_{PK}	See note 1
	Input-output Isolation Resistance R_{ISO}	$5x10^{10}$			Ω	V_{IO} = 500V (note 1)
	Output Rise Time, tr		2	7	µs	V_{CC} = 5V, I_F = 10mA
	Output Fall Time, tf		2	8	µs	R_L = 75Ω fig 1

Note 1 Measured with input leads shorted together and output leads shorted together.
Note 2 Special Selections are available on request. Please consult the factory.

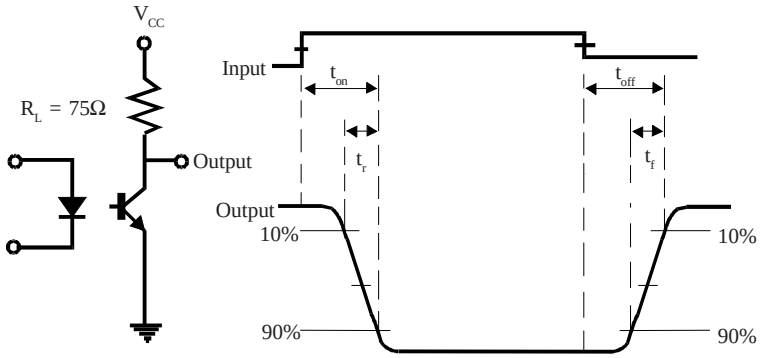
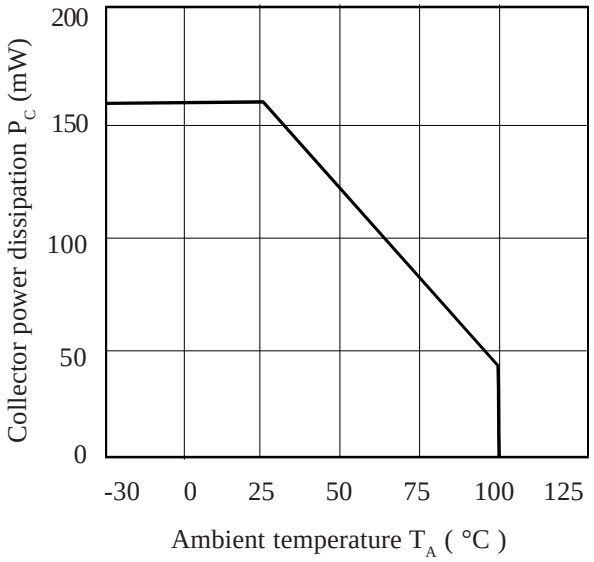
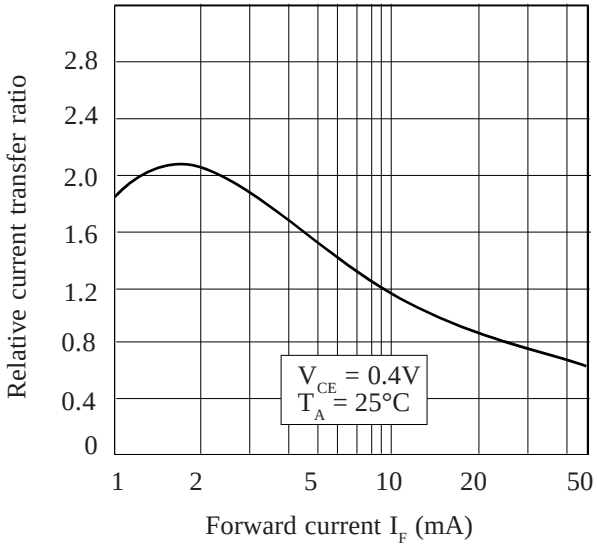


FIG 1

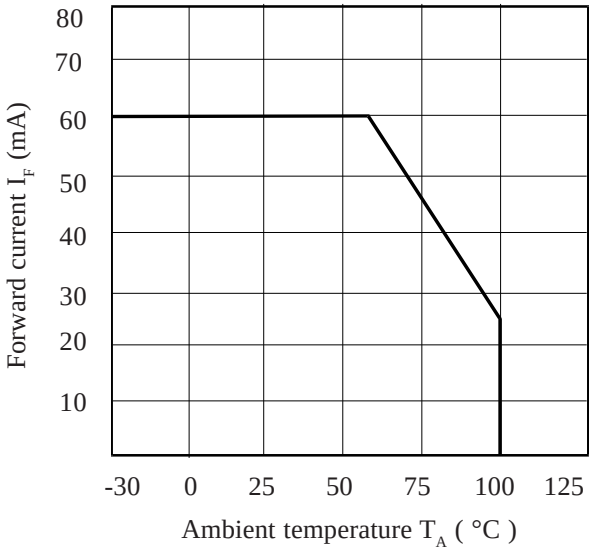
Collector Power Dissipation vs. Ambient Temperature



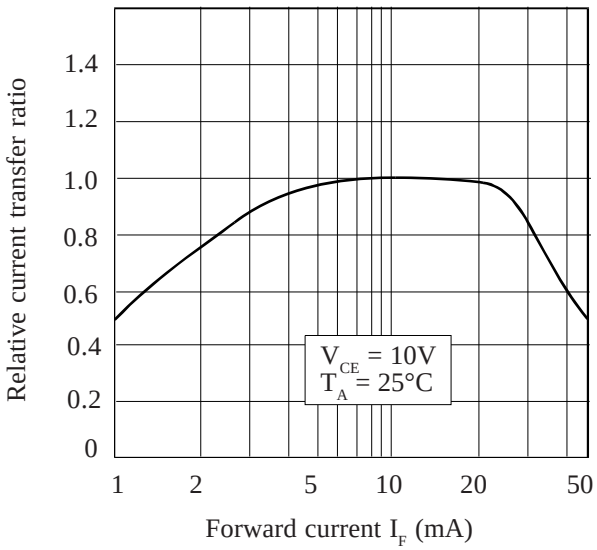
Relative Current Transfer Ratio vs. Forward Current (TIL111, TIL114)



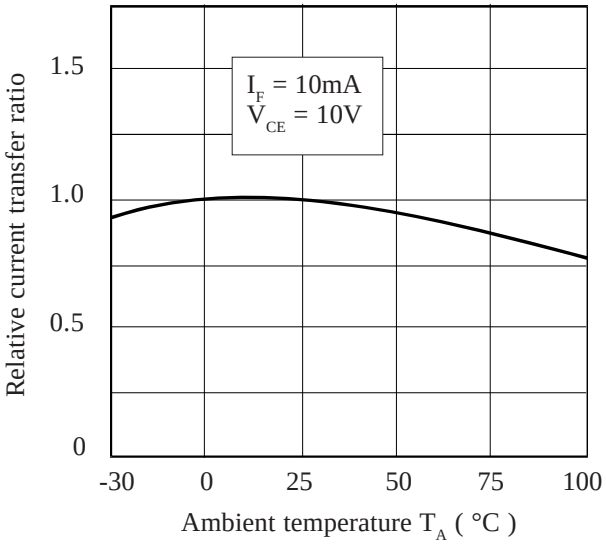
Forward Current vs. Ambient Temperature



Relative Current Transfer Ratio vs. Forward Current (TIL116, TIL117)



Relative Current Transfer Ratio vs. Ambient Temperature (TIL116, TIL117)



Relative Current Transfer Ratio vs. Ambient Temperature (TIL111, TIL114)