

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

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)		1.2	1.5	V	$I_F = 10\text{mA}$
	Reverse Current (I_R)			10	μA	$V_R = 6\text{V}$
Output	Collector-emitter Breakdown (BV_{CER}) H11D1, H11D2	300			V	$I_C = 1\text{mA}$, $R_{\text{BE}} = 1\text{M}\Omega$ (note 2)
	H11D3, H11D4	200			V	
	Collector-base Breakdown (BV_{CBO}) H11D1, H11D2	300			V	$I_C = 100\mu\text{A}$
	H11D3, H11D4	200			V	
	Emitter-collector Breakdown (BV_{ECO})	6			V	$I_E = 100\mu\text{A}$
	Collector-emitter Dark Current (I_{CER}) H11D1, H11D2			100	nA	$V_{\text{CE}} = 200\text{V}$, $R_{\text{BE}} = 1\text{M}\Omega$ $V_{\text{CE}} = 200\text{V}$, $R_{\text{BE}} = 1\text{M}\Omega$, $T_A = 100^\circ\text{C}$
				250	μA	
	H11D3, H11D4			100	nA	$V_{\text{CE}} = 100\text{V}$, $R_{\text{BE}} = 1\text{M}\Omega$ $V_{\text{CE}} = 100\text{V}$, $R_{\text{BE}} = 1\text{M}\Omega$, $T_A = 100^\circ\text{C}$
				250	μA	
Coupled	Current Transfer Ratio (CTR)	20			%	$10\text{mA } I_F$, $10\text{V } V_{\text{CE}}$, $R_{\text{BE}} = 1\text{M}\Omega$ $10\text{mA } I_F$, $0.5\text{mA } I_C$, $R_{\text{BE}} = 1\text{M}\Omega$ See note 1 See note 1 $V_{\text{IO}} = 500\text{V}$ (note 1) $V_{\text{CC}} = 10\text{V}$, $I_C = 2\text{mA}$, $R_L = 100\Omega$, fig 1
	Collector-emitter Saturation Voltage $V_{\text{CE(SAT)}}$			0.4	V	
	Input to Output Isolation Voltage V_{ISO}	5300			V_{RMS}	
		7500			V_{PK}	
	Input-output Isolation Resistance R_{ISO}	5×10^{10}			Ω	
	Turn-on Time t_{on}		5		μs	
	Turn-off Time t_{off}		5		μs	

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.

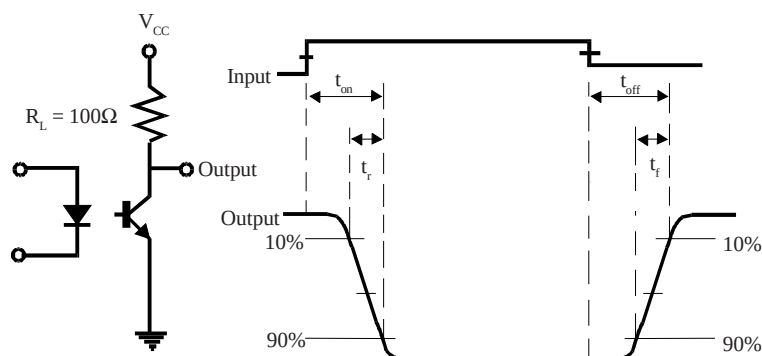
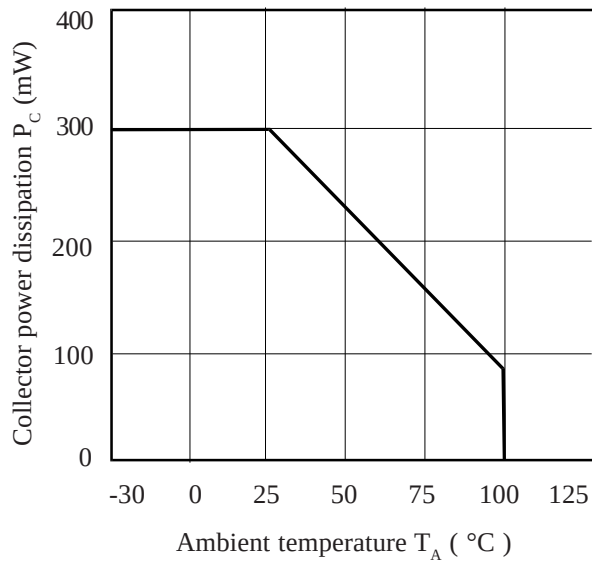
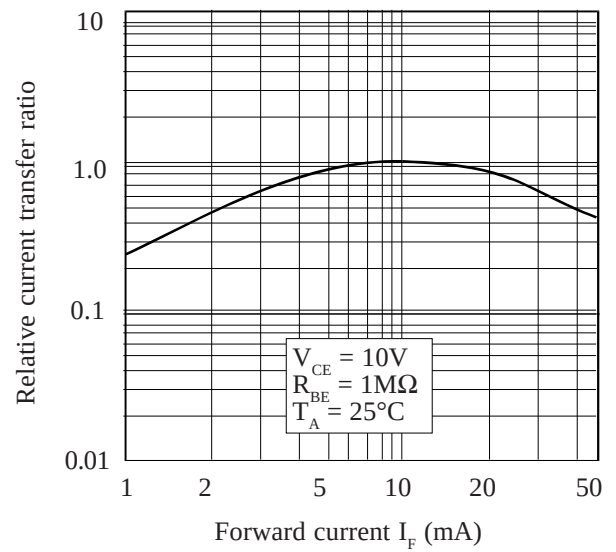


FIG 1

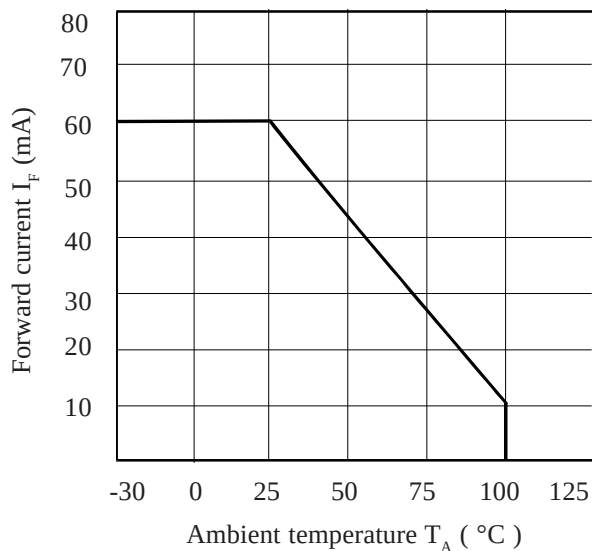
Collector Power Dissipation vs. Ambient Temperature



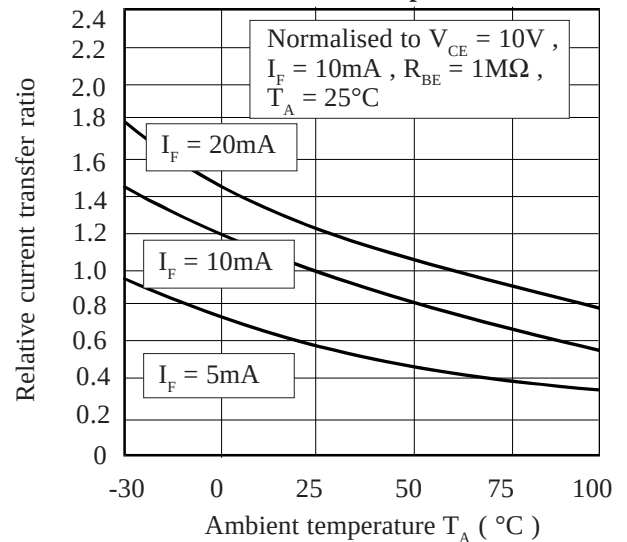
Relative Current Transfer Ratio vs. Forward Current (normalised to 10mA I_F)



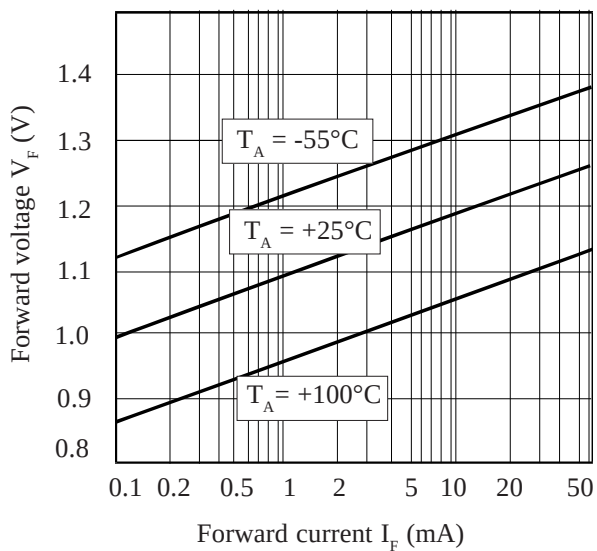
Forward Current vs. Ambient Temperature



Relative Current Transfer Ratio vs. Ambient Temperature



Forward Voltage vs. Forward Current



Collector-base Current vs. Ambient Temperature

