

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

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.

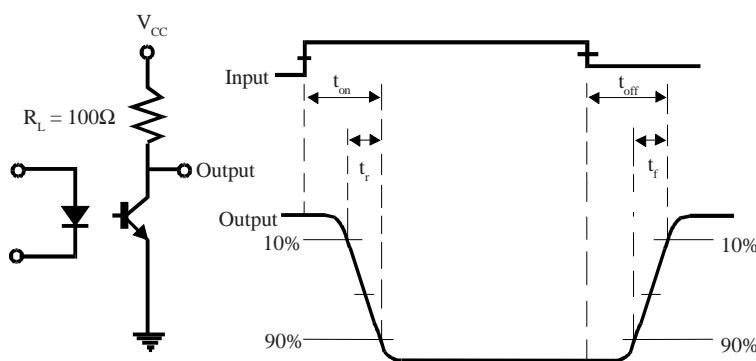
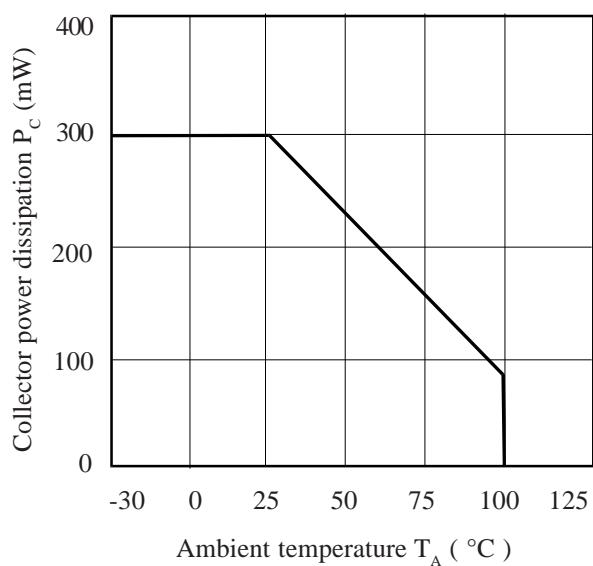
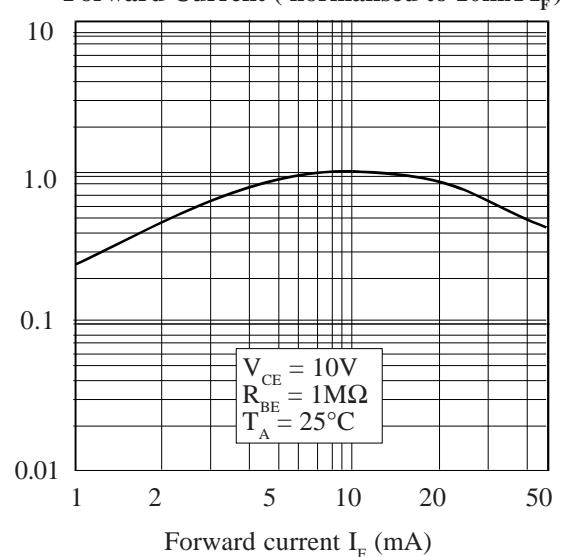


FIG 1

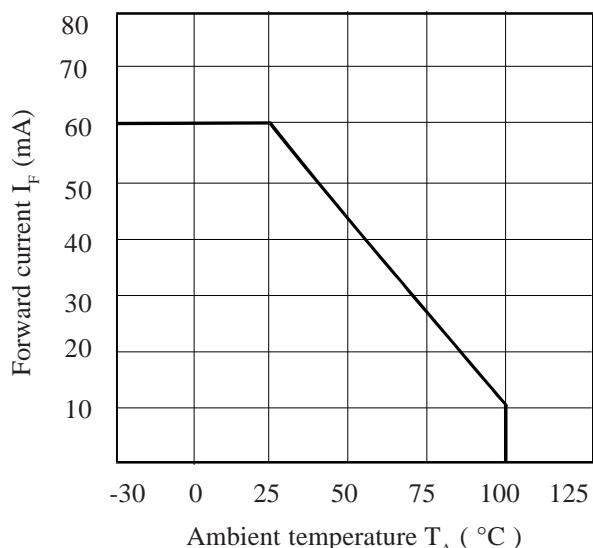
**Collector Power Dissipation vs. Ambient Temperature**



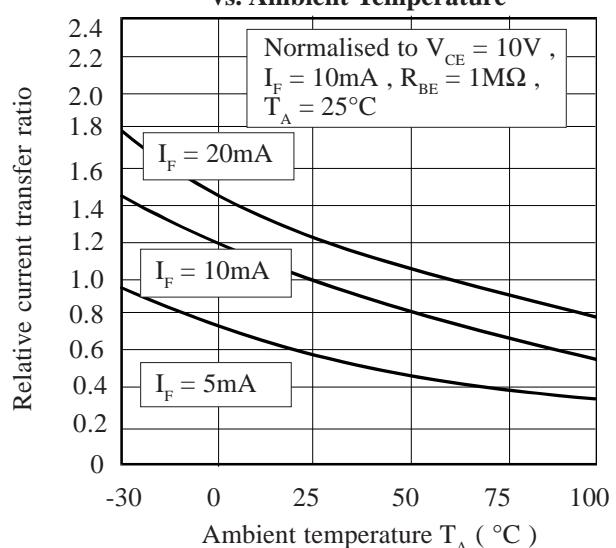
**Relative Current Transfer Ratio vs. Forward Current (normalised to 10mA  $I_F$ )**



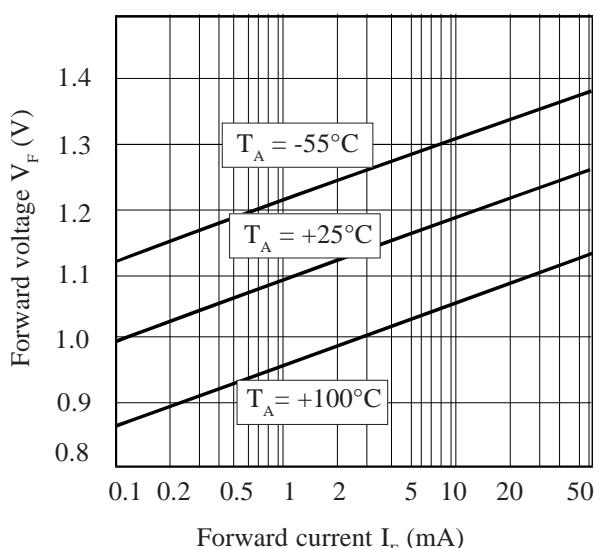
**Forward Current vs. Ambient Temperature**



**Relative Current Transfer Ratio vs. Ambient Temperature**



**Forward Voltage vs. Forward Current**



**Collector-base Current vs. Ambient Temperature**

