

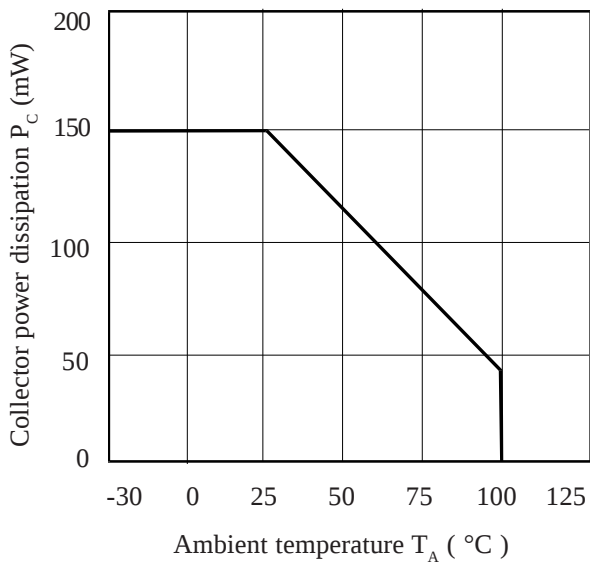
ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ Unless otherwise noted)

PARAMETER		MIN	TYP	MAX	UNITS	TEST CONDITION
Input	Forward Voltage (V_F)			1.65	V	$I_F = 50\text{mA}$
	Reverse Current (I_R)			10	μA	$V_R = 6\text{V}$
Output	Collector-emitter Breakdown (BV_{CEO}) (Note 2)	70			V	$I_C = 1\text{mA}$
	Emitter-collector Breakdown (BV_{ECO})	6			V	$I_E = 100\mu\text{A}$
	Collector-emitter Dark Current (I_{CEO}) SFH617A-1,2			50	nA	$V_{CE} = 10\text{V}$
	SFH617A-3,4			100	nA	
Coupled	Current Transfer Ratio (CTR) (Note 2)					
	SFH617A-1	40		80	%	$10\text{mA } I_F, 5\text{V } V_{CE}$
	SFH617A-2	63		125	%	
	SFH617A-3	100		200	%	
	SFH617A-4	160		320	%	
	SFH617A-1	13			%	$1\text{mA } I_F, 5\text{V } V_{CE}$
	SFH617A-2	22			%	
	SFH617A-3	34			%	
	SFH617A-4	56			%	
	Collector-emitter Saturation Voltage V_{CESAT}			0.4	V	$10\text{mA } I_F, 2.5\text{mA } I_C$
	Input to Output Isolation Voltage V_{ISO}	5300 7500			V_{RMS} V_{PK}	See note 1 See note 1
	Input-output Isolation Resistance R_{ISO}	5×10^{10}			Ω	$V_{IO} = 500\text{V}$ (note 1)
	Response Time (Rise), tr		4		μS	$V_{CE} = 2\text{V}, I_C = 2\text{mA}$
	Response Time (Fall), tf		3		μS	$R_L = 100\Omega$

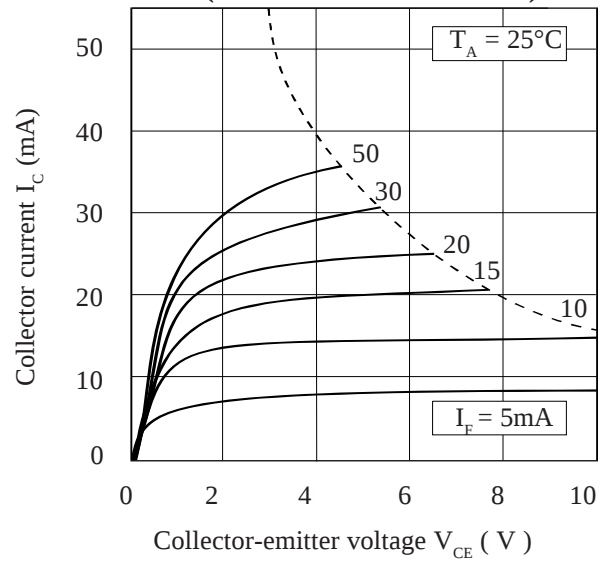
Note 1 Measured with input leads shorted together and output leads shorted together.

Note 2 Special Selections are available on request. Please consult the factory.

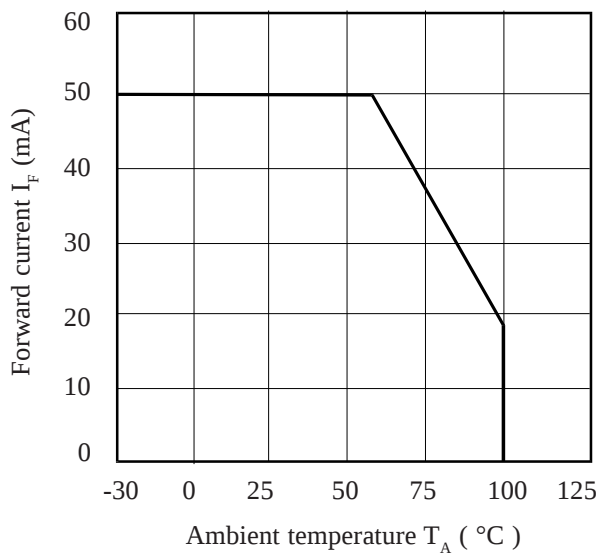
Collector Power Dissipation vs. Ambient Temperature



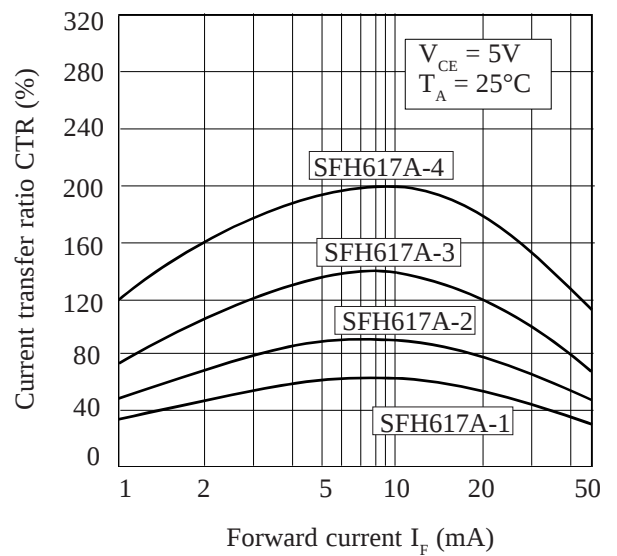
Collector Current vs. Collector-emitter Voltage (normalised to SFH617A-3)



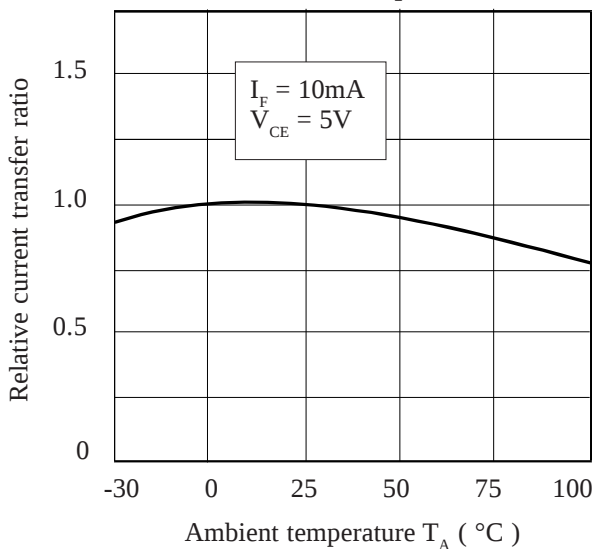
Forward Current vs. Ambient Temperature



Current Transfer Ratio vs. Forward Current



Relative Current Transfer Ratio vs. Ambient Temperature



Collector-emitter Saturation Voltage vs. Ambient Temperature

