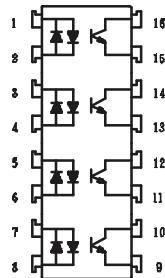


Schematic:



For dimensions and pin-outs, see the last page of this document.

Ordering:

Suffix to Standard Part Number

- V = VDE Compliant
- G = 10mm Lead Spread
- S = Surface Mount Lead-form
- T = Tape & Reel

Features:

1. Current transfer ratio (CTR:MIN.60% at If=1mA Vce=5V)
2. High isolation voltage between input and output (Viso:5300Vrms).
3. Compact dual-in-line package.
4. Ac input.

Equivalents:

This part equals/exceeds all specifications of:

- ISP844, 620-4
- PC844
- PS2505-4
- TLP620-4

Absolute Maximum Ratings:

Parameter		Symbol	Rating	Unit
Input	Forward current	If	± 50	mA
	Peak forward current	Ifm	± 1	A
	Power dissipation	Pd	70	mW
Output	Collector-emitter voltage	Vceo	80	V
	Emitter-collector voltage	Veco		V
	Collector current	Ic	50	mA
	Collector power dissipation	Pc	150	mW
Total power dissipation		Ptot	200	mW
Isolation voltage 1 minute		Viso	5300	Vrms
Operating temperature		Topr	-55 to +100	°C
Storage temperature		Tstg	-55 to +125	°C
Soldering temperature 10 second		Tsol	260	°C

(Ta=25°C)

Electrical Characteristics:

Parameter		Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	Vf	If = ±20mA	—	1.2	1.4	V
	Peak forward voltage	Vfm	Ifm = ±0.5A	—	—	3.5	V
	Terminal capacitance	Ct	V=0, f=1kHz	—	30	—	pF
Output	Collector dark current	ICEO	Vce = 20V, If=0	—	—	0.1	uA
Transfer characteristics	Current transfer ratio	CTR	If = ±1mA, Vce = 5V	60	—	600	%
	Collector-emitter saturation voltage	Vce (sat)	I = F = ±20mA, Ic = 1mA	—	0.1	0.3	V
	Isolation resistance	Riso	DC500V	5X10 ¹⁰	10 ¹¹	—	ohm
	Floating capacitance	Cf	V=0, f=1MHz	—	0.6	1.0	pF
	Cut-off frequency	fc	Vcc = 5V, Ic = 2mA, RL = 100ohm	—	80	—	kHz
	Response time (Rise)		Vce = 2V, Ic = 2mA, RL = 100ohm	—	5	20	us
	Response time (Fall)	tf		—	4	20	us

(Ta=25°C)

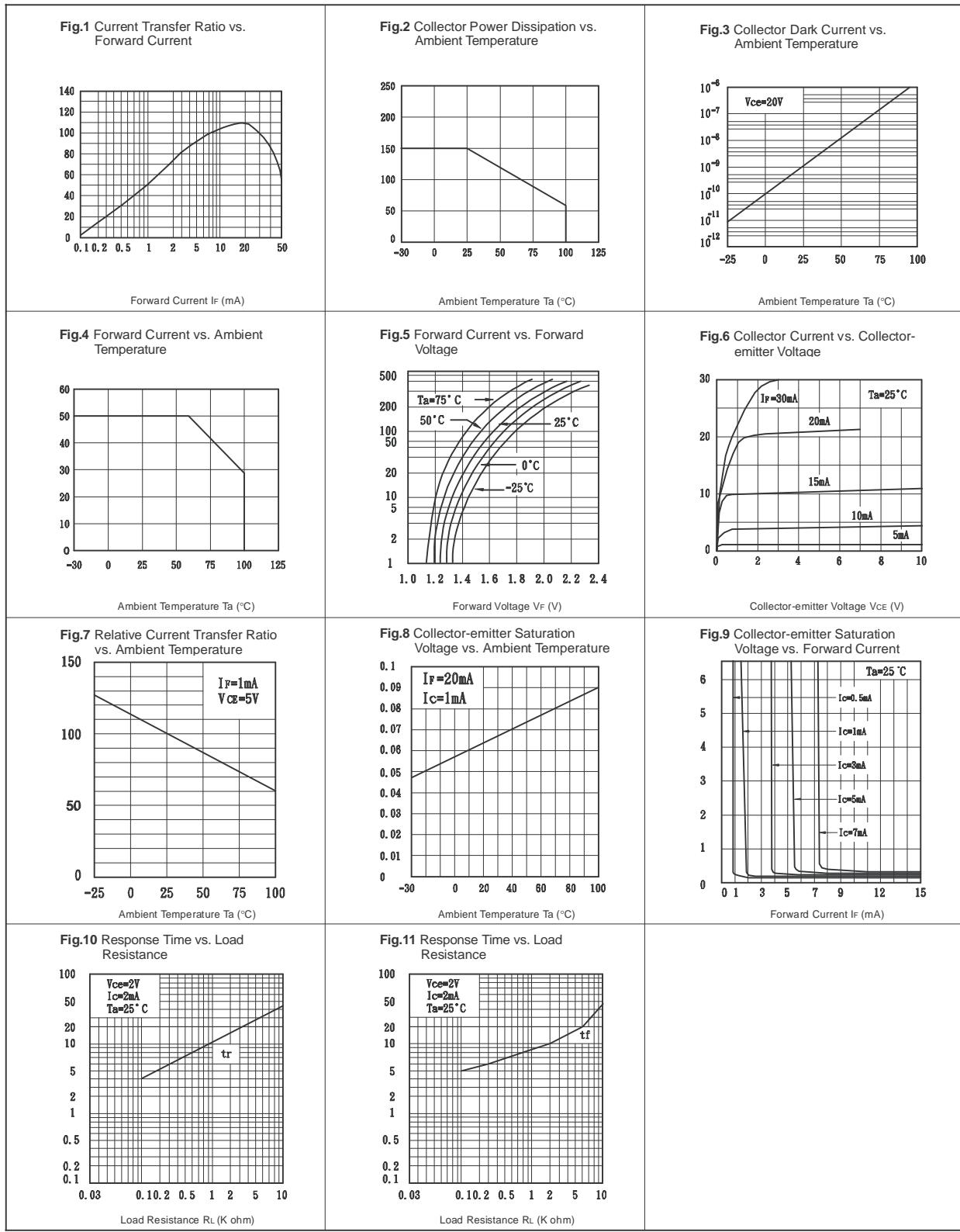
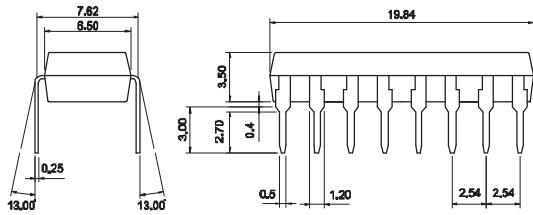
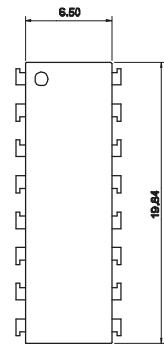
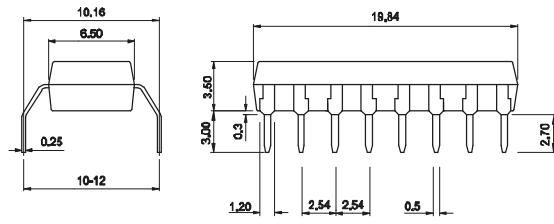
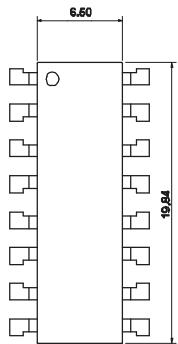


Fig.10 : 16-pin DIP type



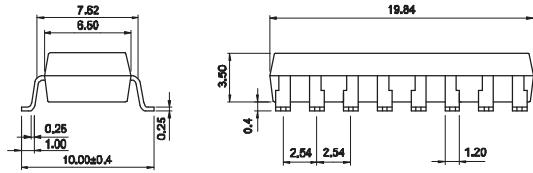
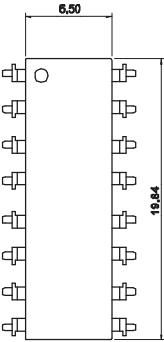
TOLERANCE : $\pm 0.2\text{mm}$

Fig.12 : 16-pin G type



TOLERANCE : $\pm 0.2\text{mm}$

Fig.11 : 16-pin SMD type



TOLERANCE : $\pm 0.2\text{mm}$