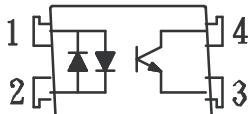


Schematic:



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

OPTO440

Absolute Maximum Ratings:

(Ta=25°C)				
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	35	V
	Emitter-collector voltage	Veco	6	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

Electrical Characteristics:

(Ta=25°C)							
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 =5mA, Vce =5V	20	—	300	%
	Collector-emitter saturation voltage	Vce (sat)	If =20mA, Ic =1mA	—	—	0.2	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)	tr	Vcc =2V, Ic=2mA, RL=100ohm	—	5	20	us
	Response time (Fall)	tf		—	4	20	us

CTR Selections are Available

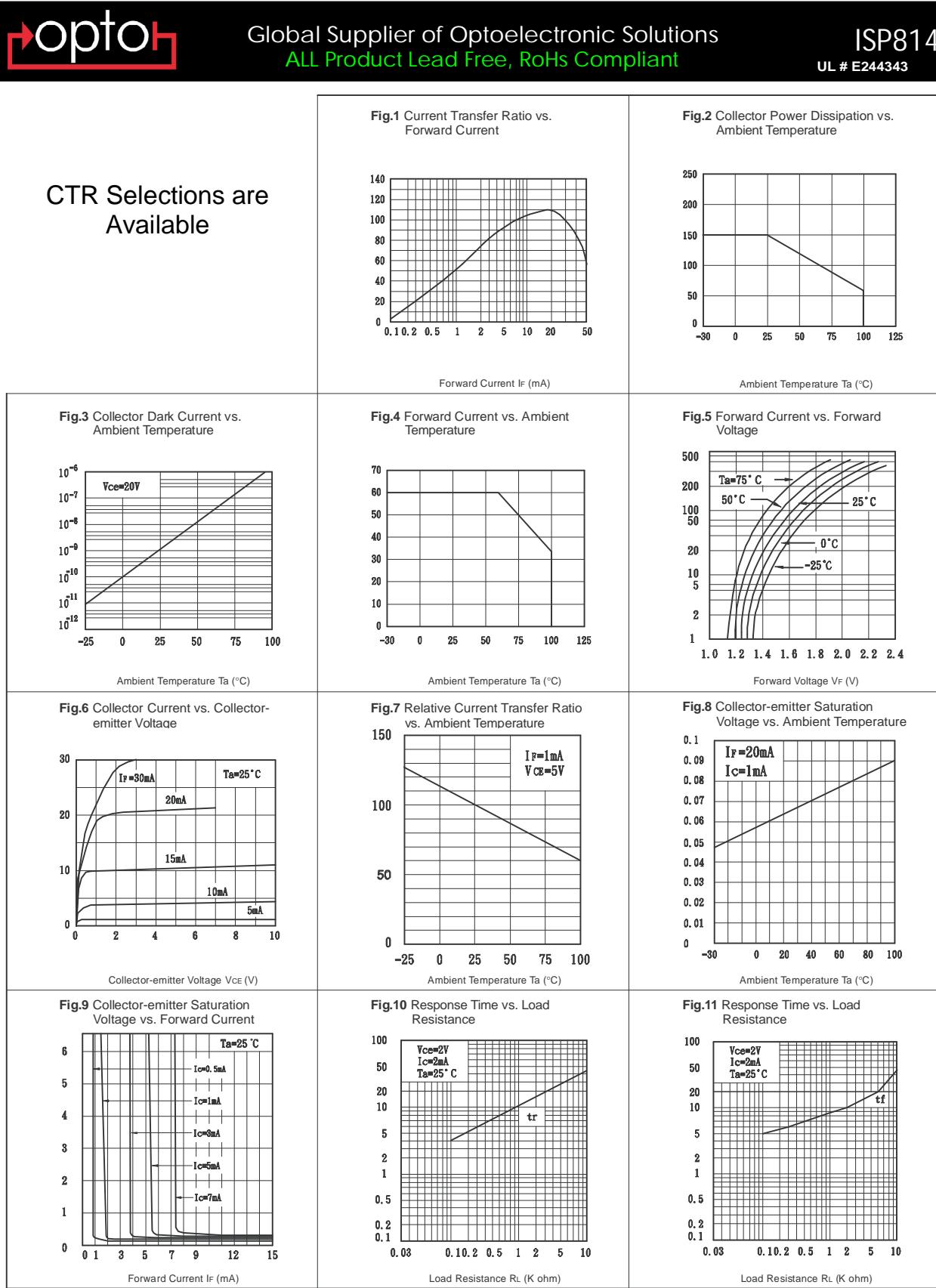


Fig.1 : 4-pin DIP type

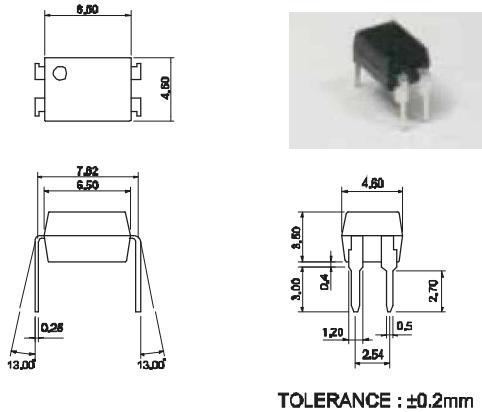


Fig.2 : 4-pin SMD type

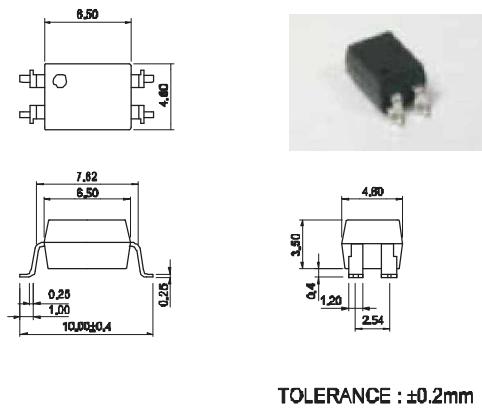


Fig.3 : 4-pin G type

