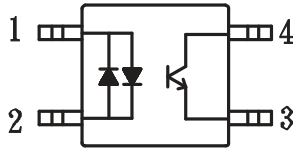


### Schematic:



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

### Features:

1. Ac inputs.
2. Opaque type, mini-flat package.
3. Isolation voltage between input and output (Viso:3750Vrms).

### Ordering:

Suffix to Standard Part Number

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

### Equivalents:

This part equals/exceeds all specifications of:

- IS354
- PC354
- PS2705
- TLP126

### Absolute Maximum Ratings:

(Ta=25°C)

Parameter		Symbol	Rating	Unit
Input	Forward current	IF	± 50	mA
	Peak forward current	IFM	± 1	A
	Power dissipation	P	70	mW
Output	Collector-emitter voltage	VCE0	60	V
	Emitter-collector voltage	VECO	5	V
	Collector current	IC	50	mA
	Collector power dissipation	PC	150	mW
Total power dissipation		Ptot	170	mW
Isolation voltage 1 minute		Viso	3750	Vrms
Operating temperature		Topr	-55 to +100	°C
Storage temperature		Tstg	-55 to +150	°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
	Terminal capacitance	Ct	V = 0, f = 1kHz	—	30	250	pF
Output	Collector dark current	ICE0	VCE = 20V, IF = 0	—	—	0.1	uA
	Collector-emitter breakdown voltage	BVCE0	IC = 0.1mA, IF = 0	60	—	—	V
	Emitter-collector breakdown voltage	BVECO	IE = 100uA, IF = 0	5	—	—	V
Transfer characteristics	Current transfer ratio	CTR	IF = ± 1mA, VCE = 5V	20	—	400	%
	Collector-emitter saturation voltage	VCE (sat)	IF = ± 20mA, IC = 1mA	—	0.1	0.3	V
	Isolation resistance	Riso	DC500V, 40 to 60%RH	5X10 <sup>10</sup>	10 <sup>11</sup>	—	ohm
	Floating capacitance	Cf	V = 0, f = 1MHz	—	0.6	1.0	pF
	Response time (Rise)	tr	VCE = 2V, IC = 2mA, RL = 100ohm	—	4	18	us
	Response time (Fall)	tf		—	3	18	us

