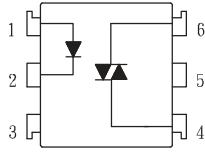


## Schematic:



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

## Features:

1. Compact dual-in-line package
2. 600V peak blocking voltage
3. Isolation voltage between input and output (Viso:5000Vrms).

## Ordering:

Suffix to Standard Part Number

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

## Equivalents:

This part equals/exceeds all specifications of:

- MOC3051, 2

## Absolute Maximum Ratings:

(Ta=25°C)

Parameter		Symbol	Rating	Unit
Input	Forward current	I <sub>F</sub>	50	mA
	Peak forward current (100us)	I <sub>FM</sub>	1	A
	Reverse voltage	V <sub>R</sub>	6	V
	Power dissipation	P <sub>D</sub>	70	mW
Output	Off-State Output Terminal voltage	V <sub>DRM</sub>	600	V <sub>peak</sub>
	On-State R. M. S. Current	I <sub>T(RMS)</sub>	100	mA
	Peak Repetitive Surget Current (PW=10ms, DC 10%)	I <sub>TSM</sub>	6	A
	Power dissipation	P <sub>D</sub>	300	mW
Total power dissipation		P <sub>tot</sub>	330	mW
Isolation voltage 1 minute		Viso	5000	Vrms
Operating temperature		Topr	-40 to +85	°C
Storage temperature		Tstg	-50 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	V <sub>F</sub>		—	1.2	1.4	V
	Peak forward voltage	V <sub>FM</sub>	I <sub>FM</sub> =0.5A	—	—	3.5	V
	Reverse Leakage Current	I <sub>R</sub>	V <sub>R</sub> =4V	—	—	10	μA
Output	Peak Blocking Current	I <sub>DRM</sub>	V <sub>DRM</sub> =600V	—	—	100	nA
	ON-State Voltage	V <sub>TM</sub>	I <sub>TM</sub> =100mA	—	1.6	2.8	V
Transfer characteristics	Holding Current	I <sub>H</sub>		—	1.0	—	mA
	Critical rate of rise of OFF-state voltage	dV/dt	V <sub>DRM</sub> = (1/	600	—	—	V/μS
	Isolation resistance	R <sub>iso</sub>	DC500V	5x10 <sup>10</sup>	10 <sup>11</sup>	—	ohm
	Minimum trigger current	I <sub>FT</sub>	Main Terminal Voltage=3V	—	—	5	mA
	Tunr-on time	T <sub>on</sub>	V <sub>D</sub> =6V, R <sub>L</sub> =100 ohm, I <sub>F</sub> =20mA	—	—	100	μS

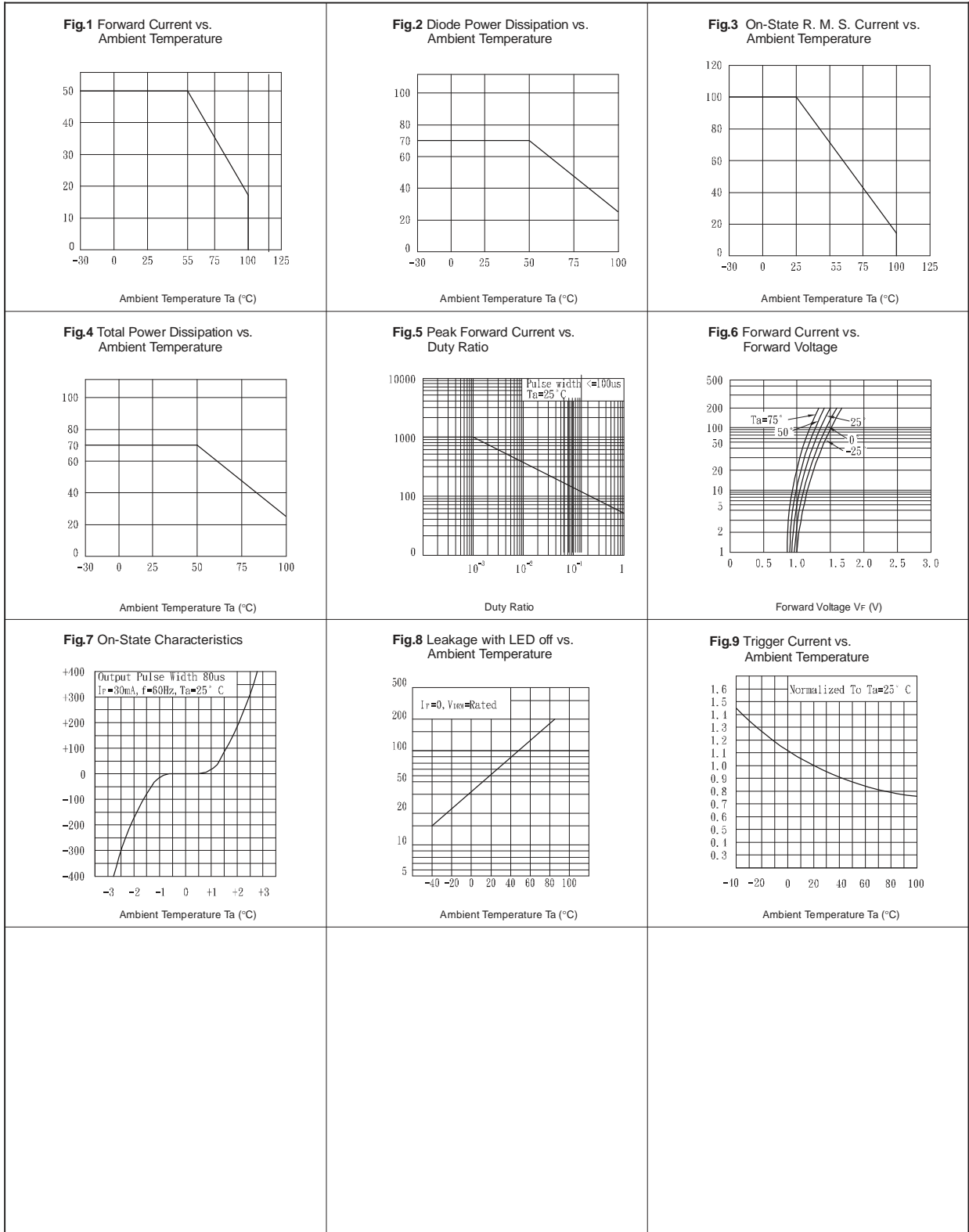


Fig.4 : 6-pin DIP type

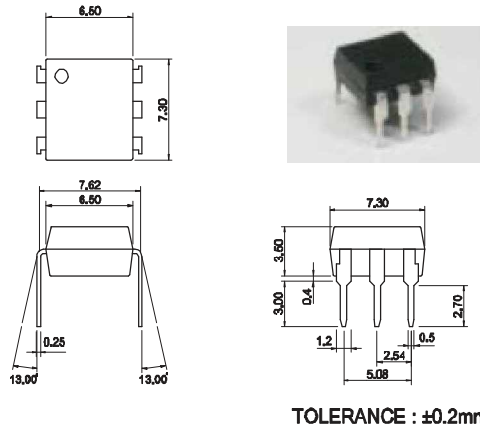


Fig.5 : 6-pin SMD type

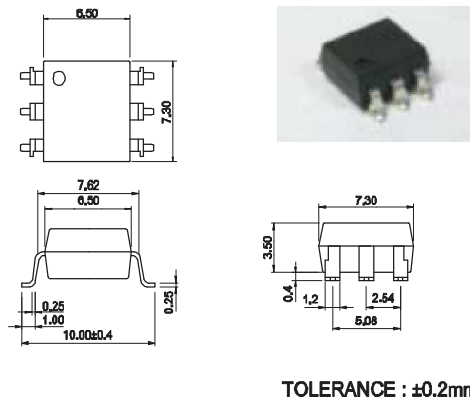


Fig.6 : 6-pin type

