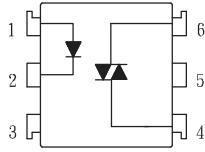


Schematic:



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	IF	50	mA
	Peak forward current (100us)	IFM	1	A
	Reverse voltage	VR	6	V
	Power dissipation	PD	70	mW
Output	Off-State Output Terminal voltage	VDRM	600	Vpeak
	On-State R. M. S. Current	IT(RMS)	100	mA
	Peak Repetitive Surget Current (PW=10ms, DC 10%)	ITSM	6	A
	Power dissipation	PD	300	mW
Total power dissipation		Ptot	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	VF		—	1.2	1.4	V
	Peak forward voltage	VFM	IFM=0.5A	—	—	3.5	V
	Reverse Leakage Current	IR	VR=4V	—	—	10	μA
Output	Peak Blocking Current	IDRM	VDRM=600V	—	—	100	nA
	ON-State Voltage	VTM	ITM=100mA	—	1.6	2.8	V
Transfer characteristics	Holding Current	IH		—	1.0	—	mA
	Critical rate of rise of OFF-state voltage	dV/dt	VDRM= (1/	600	—	—	V/μS
	Isolation resistance	Riso	DC500V	5x10 ¹⁰	10 ¹¹	—	ohm
	Minimum trigger current	IFT	Main Terminal Voltage=3V	—	—	5	mA
	Tunr-on time	Ton	VD=6V, RL=100 ohm, IF=20mA	—	—	100	μS

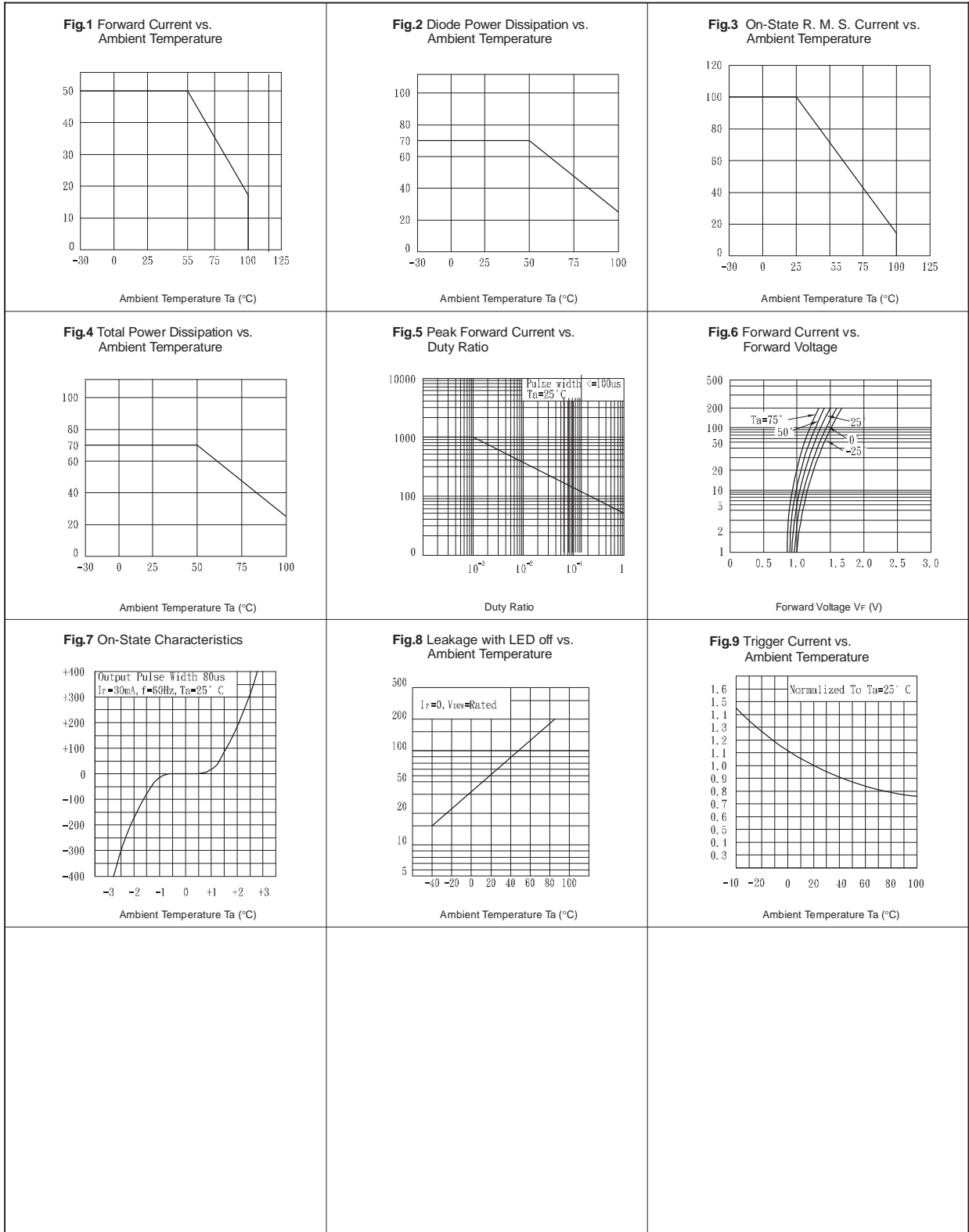
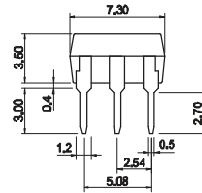
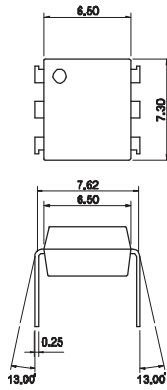
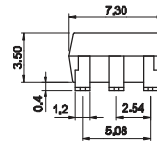
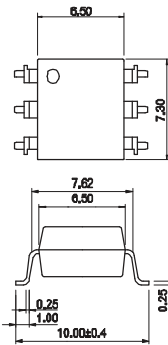


Fig.4 : 6-pin DIP type



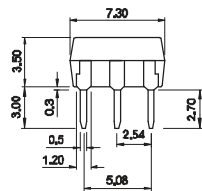
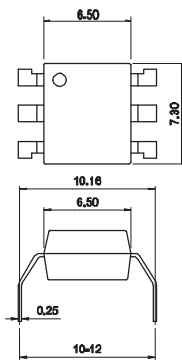
TOLERANCE : $\pm 0.2\text{mm}$

Fig.5 : 6-pin SMD type



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

Fig.6 : 6-pin type



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