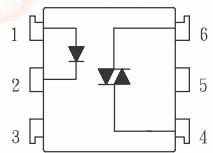


Schematic:

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

Ordering:

Suffix to Standard Part Number

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

Absolute Maximum Ratings:

(Ta=25°C)

Parameter		Symbol	Rating	Unit
Input	Forward current	I _F	50	mA
	Peak forward current (100us)	I _{FM}	1	A
	Reverse voltage	V _R	6	V
	Power dissipation	P _D	70	mW
Output	Off-State Output Terminal voltage	V _{DRM}	600	Vpeak
	On-State R. M. S. Current	I _{T(RMS)}	100	mA
	Peak Repetitive Surge Current (PW=10ms, DC 10%)	I _{TSM}	6	A
	Power dissipation	P _D	300	mW
Total power dissipation		P _{TOT}	330	mW
Isolation voltage 1 minute		V _{ISO}	5000	Vrms
Operating temperature		T _{OPR}	-40 to +85	°C
Storage temperature		T _{STG}	-50 to +125	°C
Soldering temperature 10 second		T _{SOL}	260	°C

Electrical Characteristics:

(Ta=25°C)

Parameter		Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Input	Forward voltage	V _F		—	1.2	1.4	V
	Peak forward voltage	V _{FM}	I _{FM} =0.5A	—	—	3.5	V
	Reverse Leakage Current	I _R	V _R =4V	—	—	10	μA
Output	Peak Blocking Current	I _{DRM}	V _{DRM} =600V	—	—	100	nA
	ON-State Voltage	V _{TM}	I _T =100mA	—	1.6	2.8	V
Transfer characteristics	Holding Current	I _H		—	1.0	—	mA
	Critical rate of rise of OFF-state voltage	dV/dt	V _{DRM} = (1/	600	—	—	V/μS
	Isolation resistance	R _{ISO}	DC500V	5x10 ¹⁰	10 ¹¹	—	ohm
	Minimum trigger current	I _{FT}	Main Terminal Voltage=3V	—	—	5	mA
	Turn-on time	T _{ON}	V _D =6V, R _L =100 ohm, I _F =20mA	—	—	100	μS

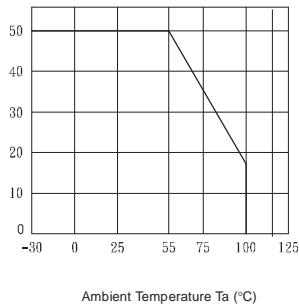
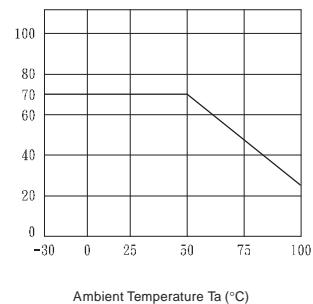
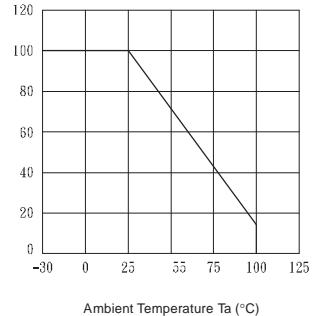
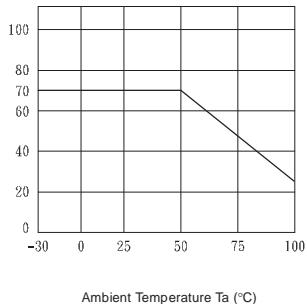
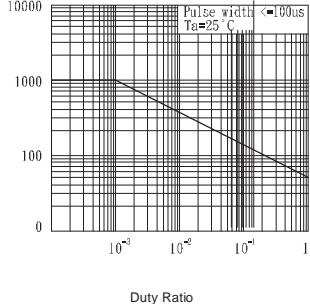
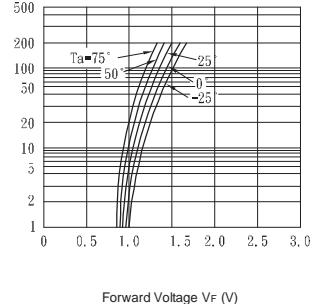
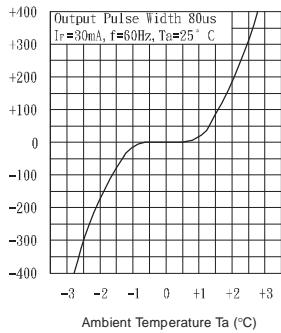
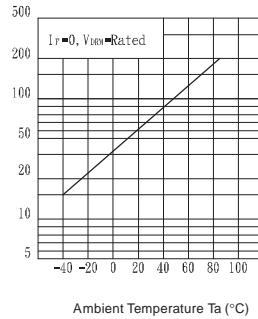
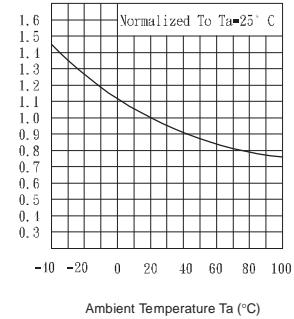
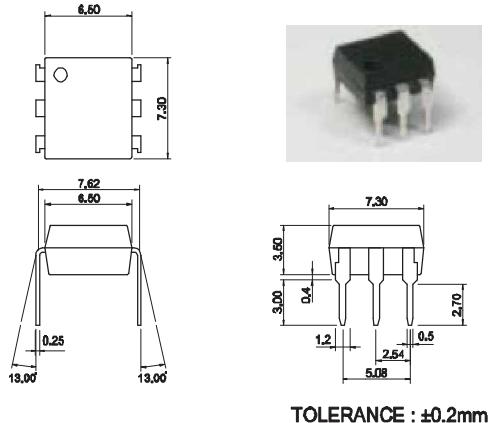
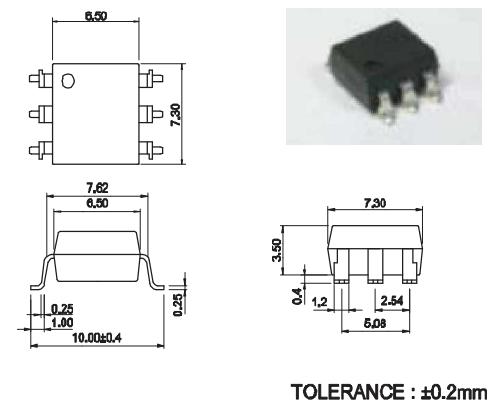
Fig.1 Forward Current vs.
Ambient Temperature

Fig.2 Diode Power Dissipation vs.
Ambient Temperature

Fig.3 On-State R. M. S. Current vs.
Ambient Temperature

Fig.4 Total Power Dissipation vs.
Ambient Temperature

Fig.5 Peak Forward Current vs.
Duty Ratio

Fig.6 Forward Current vs.
Forward Voltage

Fig.7 On-State Characteristics

Fig.8 Leakage with LED off vs.
Ambient Temperature

Fig.9 Trigger Current vs.
Ambient Temperature


Fig.4 : 6-pin DIP type



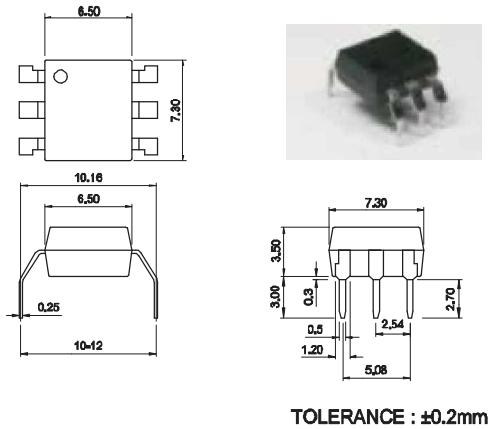
TOLERANCE : ±0.2mm

Fig.5 : 6-pin SMD type



TOLERANCE : ±0.2mm

Fig.6 : 6-pin type



TOLERANCE : ±0.2mm