



ABSOLUTE MAXIMUM RATINGS (T _{amb} = 25 °C, unless otherwise specified)					
PARAMETER	TEST CONDITION	PART	SYMBOL	VALUE	UNIT
INPUT					
Reverse voltage			V _R	6	V
Forward current			I _F	60	mA
Power dissipation			P _{diss}	100	mW
Derate from 25 °C				1.33	mW/°C
OUTPUT					
Peak off-state voltage		VO4254D/H/M	V _{DRM}	400	V
		VO4256D/H/M	V _{DRM}	600	V
RMS on-state current			I _{TM}	300	mA
Power dissipation			P _{diss}	500	mW
Derate from 25 °C				6.6	mW/°C
COUPLER					
Isolation test voltage (between emitter and detector, climate per DIN 500414, part 2, Nov. 74)	t = 1 s		V _{ISO}	5300	V _{RMS}
Storage temperature range			T _{stg}	- 55 to + 150	°C
Ambient temperature range			T _{amb}	- 55 to + 100	°C
Soldering temperature ⁽²⁾	max. ≤ 10 s dip soldering ≥ 0.5 mm from case bottom		T _{sld}	260	°C

Notes

- Stresses in excess of the absolute maximum ratings can cause permanent damage to the device. Functional operation of the device is not implied at these or any other conditions in excess of those given in the operational sections of this document. Exposure to absolute maximum ratings for extended periods of the time can adversely affect reliability.
- (1) Refer to reflow profile for soldering conditions for surface mounted devices (SMD). Refer to wave profile for soldering conditions for through hole devices (DIP).



Fig. 1 - Recommended Operating Condition

SAFETY AND INSULATION RATINGS						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Climatic classification (according to IEC68 part 1)				55/100/21		
Pollution degree (DIN VDE 0109)				2		
Comparative tracking index per DIN IEC112/VDE 0303 part 1, group IIIa per DIN VDE 6110 175 399			175		399	
V_{IOTM}		V_{IOTM}	8000			V
V_{IORM}		V_{IORM}	890			V
P_{SO}		P_{SO}			500	mW
I_{SI}		I_{SI}			250	mA
T_{SI}		T_{SI}			175	°C
Creepage distance			7			mm
Clearance distance			7			mm

TYPICAL CHARACTERISTICS ($T_{amb} = 25\text{ °C}$, unless otherwise specified)


19660

Fig. 2 - Diode Forward Voltage vs. Forward Current



19682

Fig. 4 - Leakage Current vs. Ambient Temperature



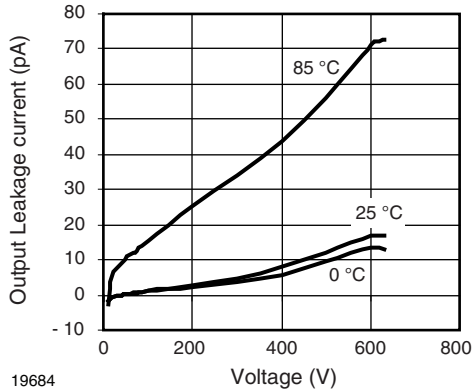
19662

Fig. 3 - Diode Reverse Voltage vs. Temperature



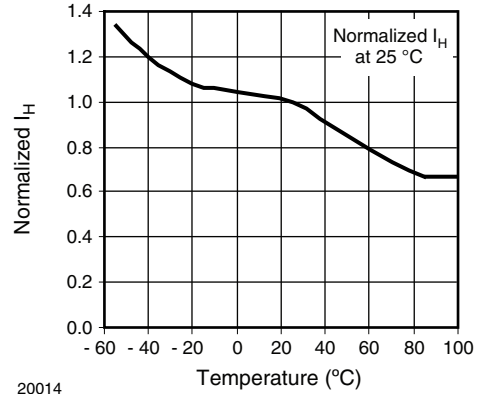
19683

Fig. 5 - On-State Current vs. On-State Voltage



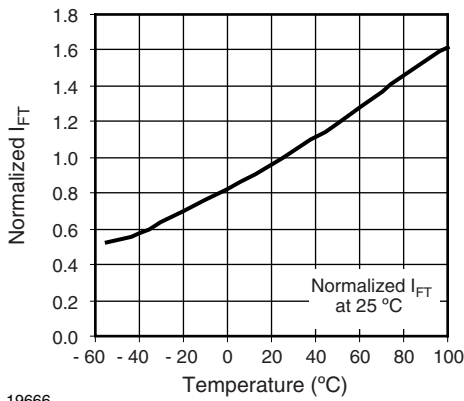
19684

Fig. 6 - Output Off Current (Leakage) vs. Voltage



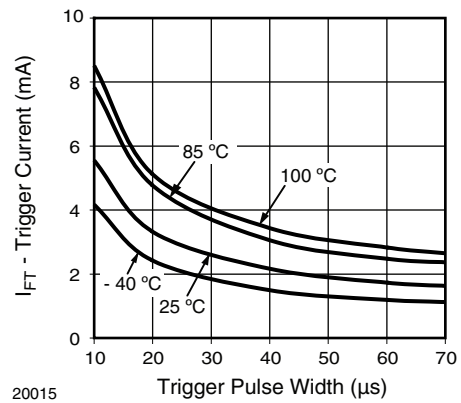
20014

Fig. 9 - Normalized I_H vs. Temperature



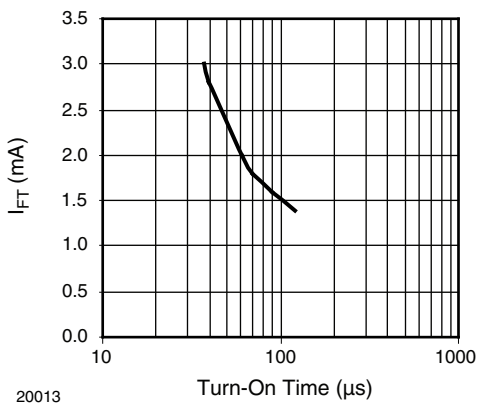
19666

Fig. 7 - Normalized Trigger Input Current vs. Temperature



20015

Fig. 10 - I_{FT} vs. LED Pulse Width



20013

Fig. 8 - I_{FT} vs. Turn-On Time (μ s)



PACKAGE DIMENSIONS in millimeters



PACKAGE MARKING (example)



Note

- VDE logo is only marked on option 1 parts. Tape and reel suffix (T) is not part of the package marking.



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JONHON

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