



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
Surge current			I _{FSM}	2.5	A
Power dissipation			P _{diss}	100	mW
Derate from 25 °C				1.33	mW/°C
OUTPUT					
Peak off-state voltage		VO4154D/H/M	V _{DRM}	400	V
		VO4156D/H/M	V _{DRM}	600	V
RMS on-state current			I _{TM}	300	mA
Total 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 min		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	max. ≤ 10 s dip soldering ≥ 0.5 mm from case bottom		T _{sld}	260	°C

Note

- 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.



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
Crearance distance			7			mm

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



Fig. 2 - Diode Forward Voltage vs. Forward Current



Fig. 4 - Leakage Current vs. Ambient Temperature

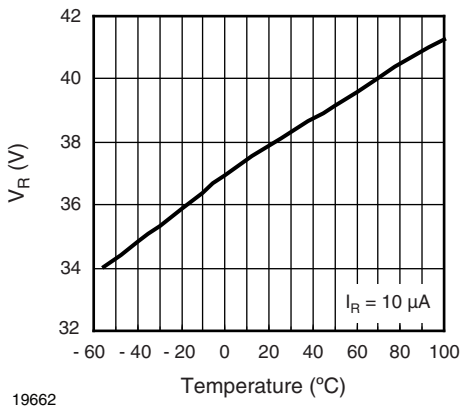


Fig. 3 - Diode Reverse Voltage vs. Temperature

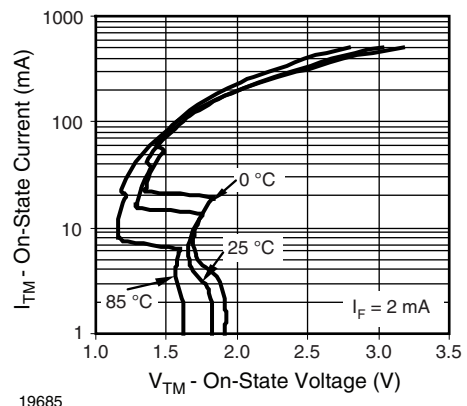
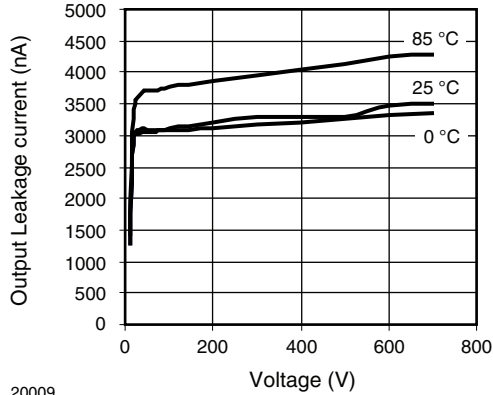
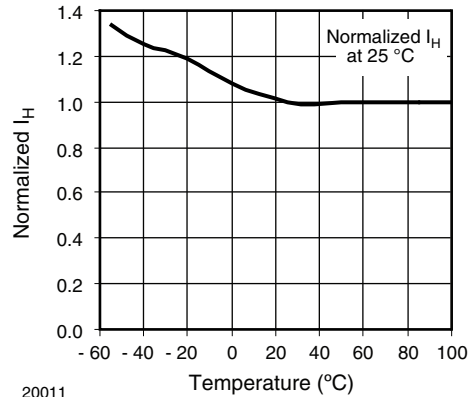


Fig. 5 - On-State Current vs. On-State Voltage



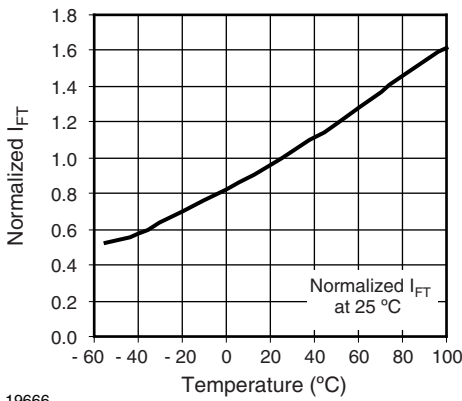
20009

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



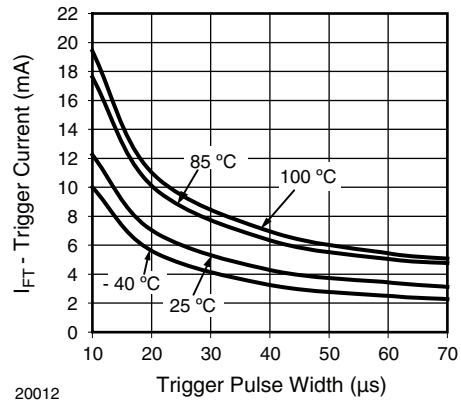
20011

Fig. 9 - Normalized Holding Current vs. Temperature



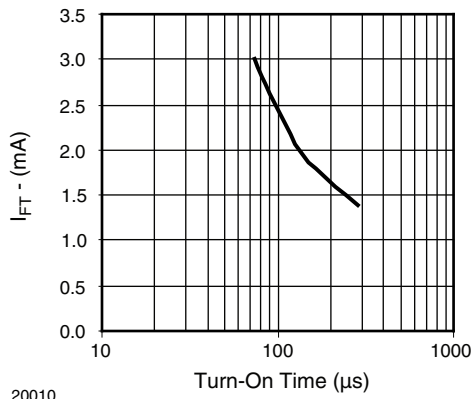
19666

Fig. 7 - Normalized Trigger Input Current vs. Temperature



20012

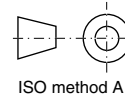
Fig. 10 - I_{FT} vs. LED Pulse Width



20010

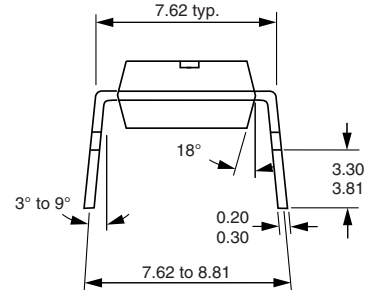
Fig. 8 - I_{FT} (mA) vs. Turn-On Time (μs)

PACKAGE DIMENSIONS in millimeters



i178014

Option 6

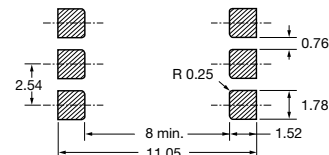
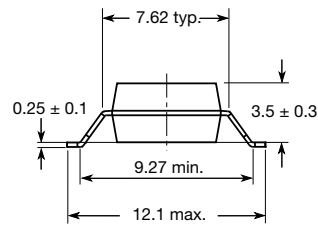


Option 7

Option 8



20802-41



PACKAGE MARKING (example)



Notes

- Only options 1, 7, and 8 are reflected in the package marking.
- The 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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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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