





<b>SWITCHING CHARACTERISTICS</b> ( $T_{amb} = 25^{\circ}\text{C}$ , unless otherwise specified)						
PARAMETER	TEST CONDITION	SYMBOL	MIN	TYP.	MAX	UNIT
Delay time	$V_S = 5 \text{ V}$ , $I_C = 2 \text{ mA}$ , $R_L = 100 \Omega$ , (see figure 1)	$t_d$		3		$\mu\text{s}$
Rise time	$V_S = 5 \text{ V}$ , $I_C = 2 \text{ mA}$ , $R_L = 100 \Omega$ , (see figure 1)	$t_r$		3		$\mu\text{s}$
Fall time	$V_S = 5 \text{ V}$ , $I_C = 2 \text{ mA}$ , $R_L = 100 \Omega$ , (see figure 1)	$t_f$		4.7		$\mu\text{s}$
Storage time	$V_S = 5 \text{ V}$ , $I_C = 2 \text{ mA}$ , $R_L = 100 \Omega$ , (see figure 1)	$t_s$		0.3		$\mu\text{s}$
Turn-on time	$V_S = 5 \text{ V}$ , $I_C = 2 \text{ mA}$ , $R_L = 100 \Omega$ , (see figure 1)	$t_{on}$		6		$\mu\text{s}$
Turn-off time	$V_S = 5 \text{ V}$ , $I_C = 2 \text{ mA}$ , $R_L = 100 \Omega$ , (see figure 1)	$t_{off}$		5		$\mu\text{s}$
Turn-on time	$V_S = 5 \text{ V}$ , $I_F = 10 \text{ mA}$ , $R_L = 1 \text{k}\Omega$ , (see figure 2)	$t_{on}$		3		$\mu\text{s}$
Turn-off time	$V_S = 5 \text{ V}$ , $I_F = 10 \text{ mA}$ , $R_L = 1 \text{k}\Omega$ , (see figure 2)	$t_{off}$		10		$\mu\text{s}$

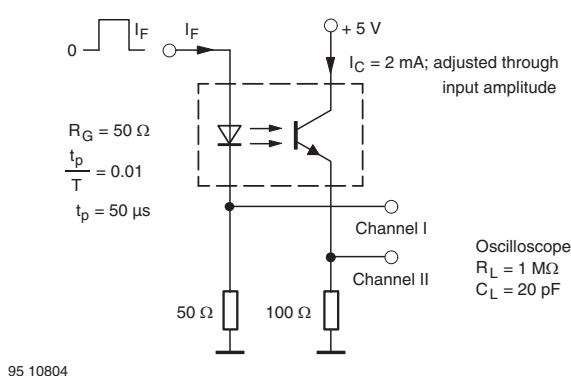


Fig. 1 - Test Circuit, Non-Saturated Operation

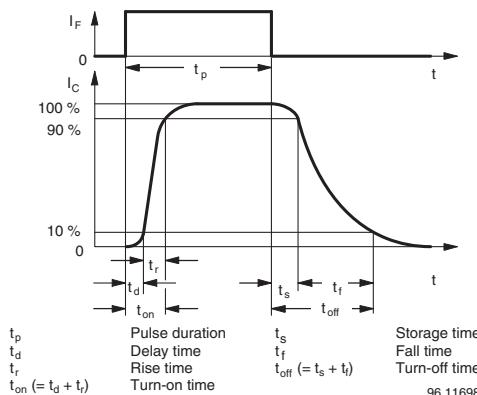


Fig. 3 - Switching Times

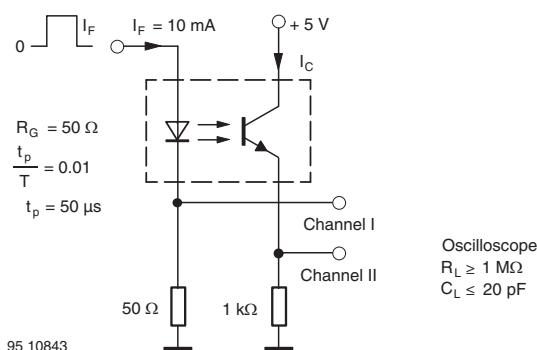


Fig. 2 - Test Circuit, Saturated Operation

<b>SAFETY AND INSULATION RATINGS</b>						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Climatic classification (according to IEC 68 part 1)				55/100/21		
Comparative tracking index		CTI	175		399	
$V_{IOTM}$			6000			V
$V_{IORM}$			560			V
$P_{SO}$				350		mW
$I_{SI}$				150		mA
$T_{SI}$				165		°C
Creepage distance			4			mm
Clearance distance			4			mm
Insulation thickness			0.2			mm

**Note**

- As per IEC 60747-5-2, §7.4.3.8.1, this optocoupler is suitable for “safe electrical insulation” only within the safety ratings. Compliance with the safety ratings shall be ensured by means of protective circuits.

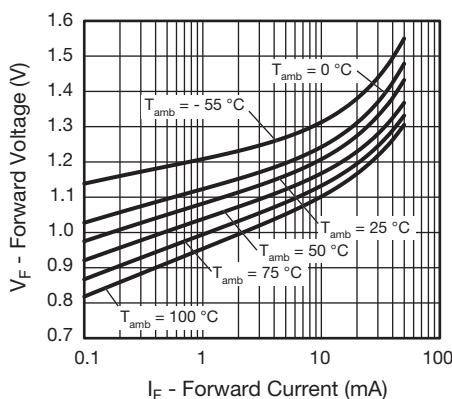
**TYPICAL CHARACTERISTICS** ( $T_{amb} = 25^\circ\text{C}$ , unless otherwise specified)


Fig. 4 - Forward Voltage vs. Forward Current

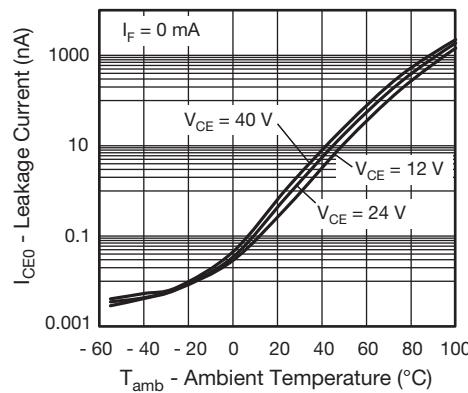


Fig. 6 - Leakage Current vs. Ambient Temperature

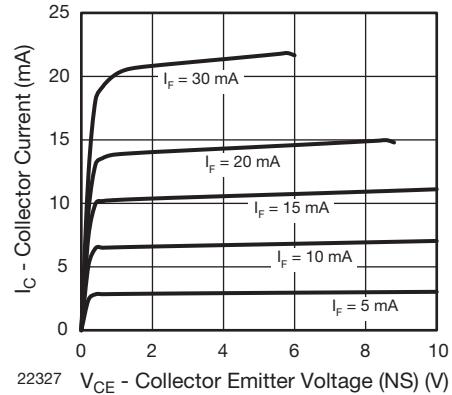


Fig. 5 - Collector Current vs. Collector Emitter Voltage (NS)

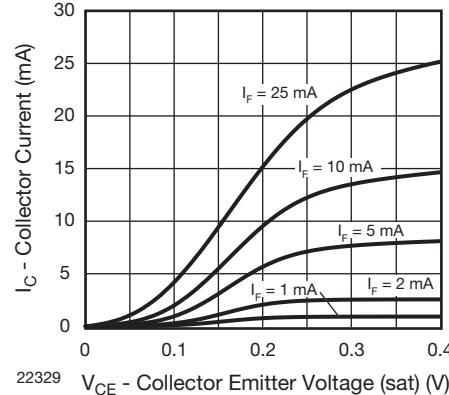


Fig. 7 - Collector Current vs. Collector Emitter Voltage (sat)

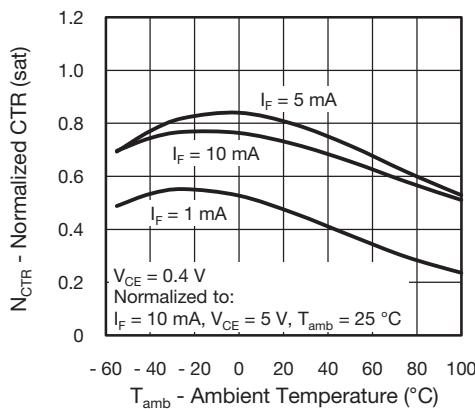


Fig. 8 - Normalized CTR (sat) vs. Ambient Temperature

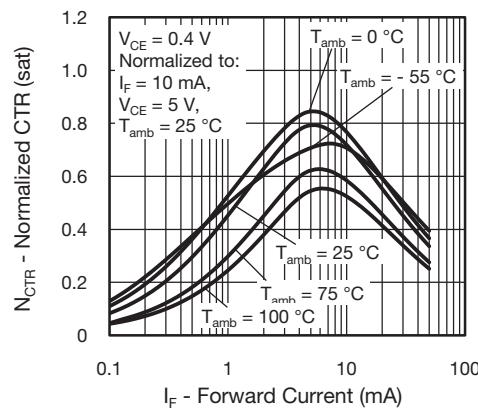


Fig. 11 - Normalized CTR (sat) vs. Forward Current

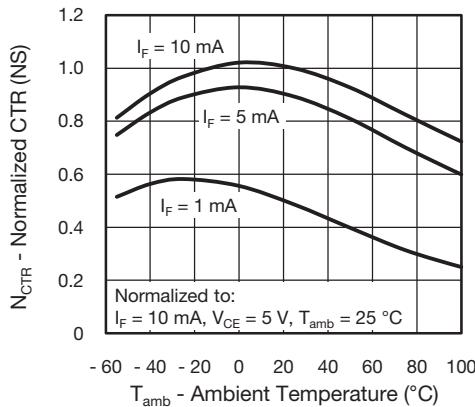


Fig. 9 - Normalized CTR (NS) vs. Ambient Temperature

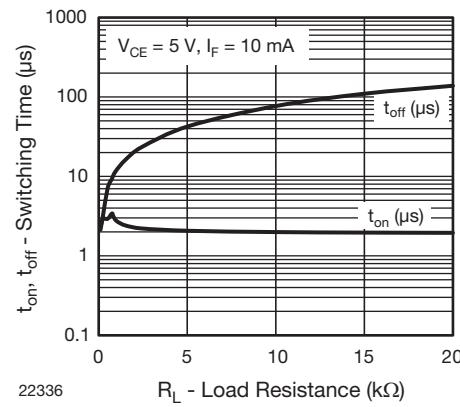


Fig. 12 - Switching Time vs. Load Resistance

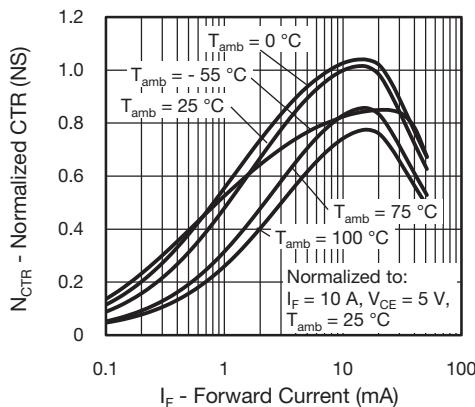


Fig. 10 - Normalized CTR (NS) vs. Forward Current

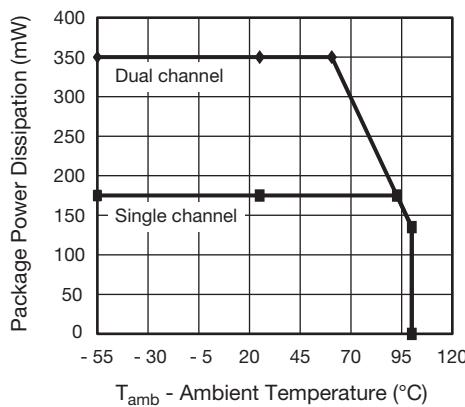
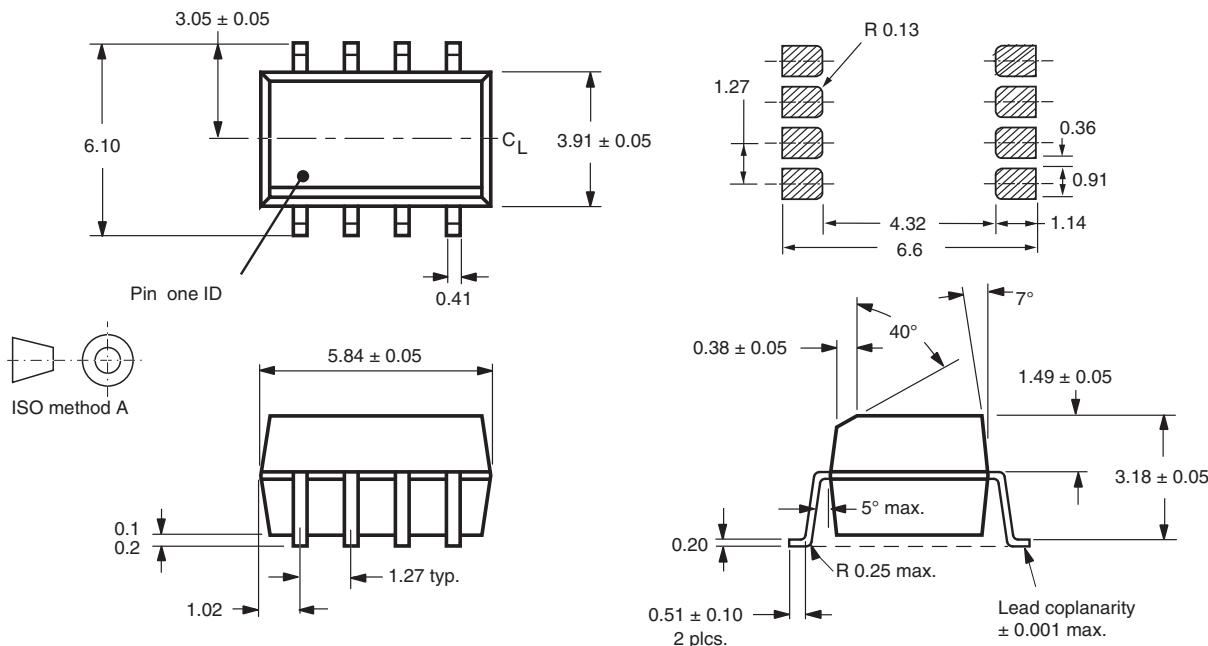
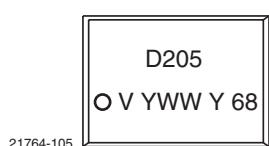


Fig. 13 - Power Dissipation vs. Ambient Temperature

**PACKAGE DIMENSIONS** in millimeters

**PACKAGE MARKING** (example)

**Note**

- Tape and reel suffix (T) is not part of the package marking.



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**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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