TOSHIBA PHOTOCOUPLER

TLP3064(D4)SERIES

ATTACHMENT: SPECIFICATIONS FOR VDE0884 OPTION (D4)

Types: TLP3064, TLP3064F

Type designations for 'Option: (D4)', which are tested under VDE0884 requirements.

Ex. : TLP3064 (D4-LF1) D4 : VDE0884 option

LF1: lead bend

Note : Use Toshiba standard type number for safety standard application.

Ex. TLP3064 (D4-LF1) \rightarrow TLP3064

VDE0884 ISOLATION CHARACTERISTICS

DESCRIPTION	SYMBOL	RATING	UNIT
Application Classification (DIN VDE0110 Teil 1/01.89, Table 1) for rated mains voltage≤300 V _{RMS} for rated mains voltage≤600 V _{RMS}		I-IV I-III	
Climatic Classification (DIN IEC68 Teil 1/09.80)		40 / 100 / 21	-
Pollution Degree (DIN VDE0110 Teil 2/01.89)		2	_
Maximum Operating Insulation Voltage Type 1 (7.62) (TLP3064 type) Type 2 (10.16) (TLP3064F type)	V _{IORM}	890 1140	Vpk
Input to output Test Voltage, Method A Upr=1.5×V _{IORM} , Type and Sample Test t _p =60s, Partial Discharge<5pC Type 1 (7.62) (TLP3064 type) Type 2 (10.16) (TLP3064F type)	Vpr	1335 1710	Vpk
Input to output Test Voltage, Method B Upr=1.875 \times VIORM, 100% Production Test tp=1s, Partial Discharge<5pC Type 1 (7.62) (TLP3064 type) Type 2 (10.16) (TLP3064F type)	Vpr	1670 2140	Vpk
Highest Permissible Overvoltage (Transient Overvoltage, t _{pr} =10s)	V _{TR}	8000	Vpk
Safety Limiting Values (Max. permissible ratings in case of fault, also refer to thermal derating curve Current (Input current IF, Ps=0) Power (Output or Total Power Dissipation) Temperature	Isi Psi Tsi	400 700 150	mA mW °C
Insulation Resistance, $V_{IO}=500V$, $Ta=25^{\circ}C$ $V_{IO}=500V$, $Ta=Tsi$	Rsi	$\stackrel{\geq}{=} 10^{12} \ \stackrel{\geq}{=} 10^9$	Ω

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[●] TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.

		Type 1 (7.62) (TLPxxx type)	Type 2 (10.16) (TLPxxxF type)
Minimum Creepage Distance *	Cr	7.0 mm	8.0 mm
Minimum Clearance *	Cl	7.0 mm	8.0 mm
Minimum Insulation Thickness	ti	0.5 mm	
Comperative Tracking Index (DIN IEC112/VDE0303, Part 1)	CTI	175 (VDE0110 Teil 2/01.89 Group Ⅲa)	

- * in accordance with DIN VDE0110 Teil 2/01.89, Table 2, & 4
- 1. If a printed circuit is incorporated, the creepage distance and clearance may be reduced below this value (e. g. at a standard distance between soldering eye centres of 7.5mm). If this is not permissible, the user shall take suitable measures.
- 2. This photocoupler is suitable for 'safe electrical isolation' only within the safety limit data. Maintenance of the safety data shall be ensured by means of protective circuits.

TLP3064,3064F

VDE Test sign: Marking on product for VDE0884:

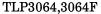


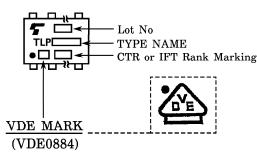
Marking on packing for VDE0884:



0884

Marking Example





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