TOSHIBA Photocoupler

TLP762J(D4),TLP762JF(D4),TLP763J(D4),TLP763JF(D4)

<u>Attachment</u>: Specifications for <u>VDE0884</u> option: (D4) Types: TLP762J, TLP762JF, TLP763JF

Type designations for 'option : $(\underline{D4})$ ', which are tested under VDE0884 requirements.

Ex.: TLP762 (D4–LF1) D4: VDE0884 option LF1: lead bend

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

Ex. TLP762J (D4–LF1) \rightarrow TLP762J

VDE0884 Isolation Characteristics

Description	Symbol	Rating	Unit
Application classification (DIN VDE0110 teil 2 / 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	V _{IORM}	1130	Vpk
Input to output test voltage, method A Vpr = 1.5×V _{IORM} , type and sample test t _p = 60s, partial discharge < 5pC	Vpr	1695	Vpk
Input to output test voltage, method B Vpr = 1.875×V _{IORM} , 100% production test t _p = 1s, partial discharge < 5pC	Vpr	2120	Vpk
Highest permissible overvoltage (transient overvoltage, t _{pr} = 10s)	V _{TR}	6000	Vpk
Safety limiting values (max. permissible ratings in case of fault, also refer to thermal derating curve) Current (input current I _F , Psi = 0) Power (output or total power dissipation) Temperature	I _{si} P _{si} T _{si}	400 700 150	mA mW °C
Insulation resistance, V _{IO} = 500V, Ta = 25°C V _{IO} = 500V, Ta = Tsi	R _{si}	≥10 ¹² ≥10 ⁹	Ω

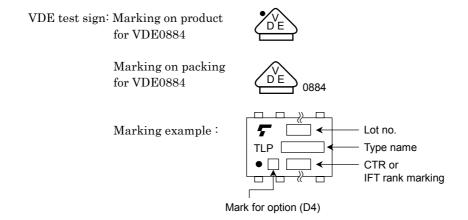
Insulation Related Specifications

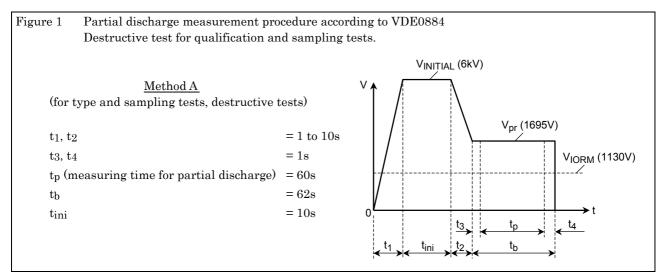
		7.62mm pitch TLPxxx type	10.16mm pitch TLPxxxF type
Minimum creepage distance (*)	Cr	7.0 mm	8.0 mm
Minimum clearance (*)	Cl	7.0 mm	8.0 mm
Minimum insulation thickness	ti	0.5 mm	
Comperative tracking index (DIN IEC112 / VDE0303, part 1)	СТІ	175 (VDE0110 teil 2 / 01.89 group III a)	

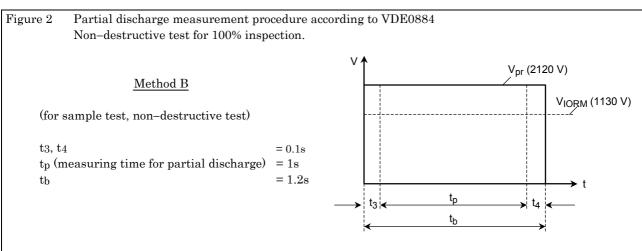
- (*) in accordance with DIN VDE0110 teil 2 / 01.89, table 2, & 4
- 1. If a printed circuit is incorporated, the creepage distance and clearance may be reduced below this value (e. g. at a standard distance between soldering eye centres of 7.5mm). If this is not permissible, the user shall take suitable measures.

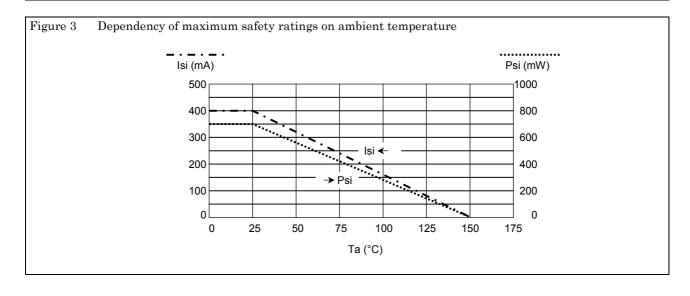
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2. This photocoupler is suitable for 'safe electrical isolation' only within the safety limit data. Maintenance of the safety data shall be ensured by means of protective circuits.









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