TOSHIBATLP620(D4)SERIES,TLP621(D4)SERIES,TLP750(D4)SERIES

TOSHIBA Photocoupler

TLP620(D4)SERIES,TLP621(D4)SERIES,TLP750(D4)SERIES

Attachment: Specifications for VDE0884 option: (D4)

Types: TLP620, TLP620-2, TLP620-4, TLP621, TLP621-2, TLP621-4, TLP750, TLP751

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

Ex.: TLP621 (D4-GR-LF2) D4: VDE0884 option

GR: CTR rank

LF2: Standard lead bend

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

Ex. TLP621 (D4–GR–LF2) \rightarrow TLP621

VDE0884 Isolation Characteristics

Description	Symbol	Rating	Unit
Application classification (DIN VDE0109 / 12.83, 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)		55 / 100 / 21	_
Pollution degree (DIN VDE0109 / 12.83)		2	_
Maximum operating insulation voltage	V _{IORM}	890	Vpk
Input to output test voltage, method A Vpr = $1.5 \times V_{IORM}$, type and sample test $t_P = 60s$, partial discharge < $5pC$	Vpr	1335	Vpk
Input to output test voltage, method B Vpr = 1.875×V _{IORM} , 100% production test t _P = 1s, partial discharge < 5pC	Vpr	1670	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 I _F , P _{Si} = 0) power (output or total power dissipation) temperature	I _{si} P _{si} T _{si}	300 500 150	mA mW °C
Insulation resistance at Tsi, V _{IO} = 500V	R _{si}	≥10 ⁹	Ω

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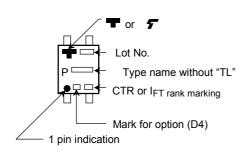
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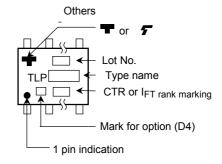
Insulation Related Specifications

Minimum creepage distance (*)	Cr	7. 0 mm
Minimum clearance (*)	CI	7. 0 mm
Minimum insulation thickness	ti	0.5 mm
Comperative tracking index (DIN IEC112 / VDE0303, part 1)	СТІ	175 (VDE0109 / 12.83 group III a)

- ((*) in accordance with DIN VDE0109 / 12.83, 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 7.5 mm). 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.

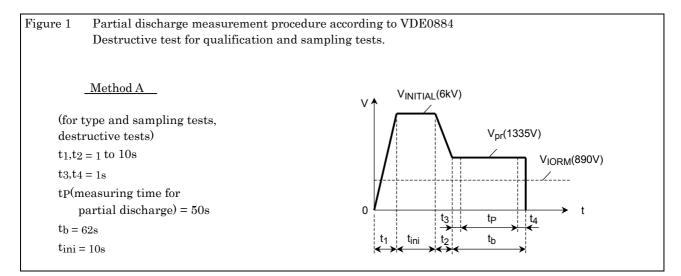
Marking example: 4 pin type

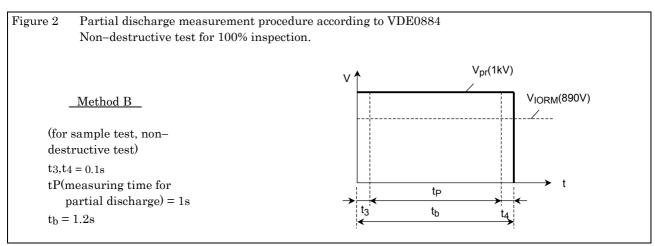


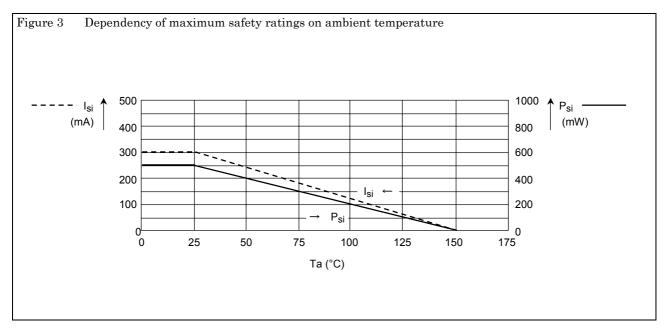


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