

TOSHIBA PHOTOCOUPLER

TLP762J(D4), TLP762JF(D4), TLP763J(D4), TLP763JF(D4)ATTACHMENT : SPECIFICATIONS FOR VDE0884 OPTION : (D4)

Types : TLP762J, TLP762JF, TLP763J, TLP763JF

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

Ex. : TLP762J (D4-LF1)

D4 : VDE0884 option

LF1 : lead bend



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

Ex. TLP762J (D4-LF1) → TLP762J

VDE0884 ISOLATION CHARACTERISTICS

DESCRIPTION	SYMBOL	RATING	UNIT
Application Classification (DIN VDE0110 Teil 2 / 01.89, Table 1) for rated mains voltage $\leq 300 \text{ V}_{\text{RMS}}$ for rated mains voltage $\leq 600 \text{ V}_{\text{RMS}}$		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	V_{pk}
Input to output Test Voltage, Method A $V_{\text{pr}} = 1.5 \times V_{\text{IORM}}$ Type and Sample Test $t_{\text{p}} = 60\text{s}$, Partial Discharge $< 5\text{pC}$	V_{pr}	1695	V_{pk}
Input to output Test Voltage, Method B $V_{\text{pr}} = 1.875 \times V_{\text{IORM}}$, 100% Production Test $t_{\text{p}} = 1\text{s}$, Partial Discharge $< 5\text{pC}$	V_{pr}	2120	V_{pk}
Highest Permissible Overvoltage (Transient Overvoltage, $t_{\text{pr}} = 10\text{s}$)	V_{TR}	6000	V_{pk}
Safety Limiting Values (Max. permissible ratings in case of fault, also refer to thermal derating curve) Current (Input current I_{F} , $P_{\text{Si}} = 0$) Power (Output or Total Power Dissipation) Temperature	I_{Si} P_{Si} T_{Si}	400 700 150	mA mW °C
Insulation Resistance, $V_{\text{IO}} = 500\text{V}$, $T_{\text{a}} = 25^{\circ}\text{C}$ $V_{\text{IO}} = 500\text{V}$, $T_{\text{a}} = T_{\text{Si}}$	R_{Si}	$\geq 10^{12}$ $\geq 10^9$	Ω

INSULATION RELATED SPECIFICATIONS

		 7.62mm pitch TLPxxx type	 10.16mm pitch TLPxxxF type
Minimum Creepage Distance (*)	Cr	7.0mm	8.0mm
Minimum Clearance (*)	Cl	7.0mm	8.0mm
Minimum Insulation Thickness	ti	0.5mm	
Comperative Tracking Index (DIN IEC112/VDE0303, Part 1)	CTI	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.
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.

VDE Test sign : Marking on product
for VDE0884



Marking on packing
for VDE0884



Marking Example :

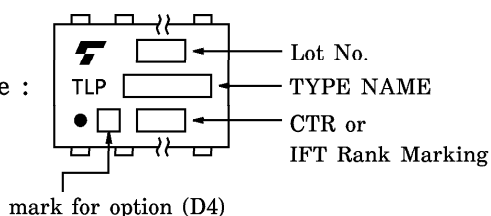


Figure 1 Partial discharge measurement procedure according to VDE0884
Destructive test for qualification and sampling tests.

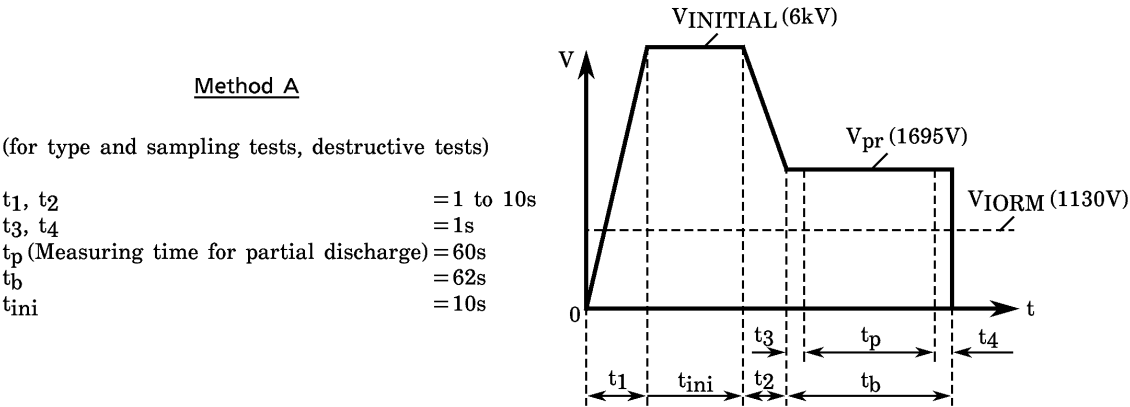


Figure 2 Partial discharge measurement procedure according to VDE0884
Non-destructive test for 100% inspection.

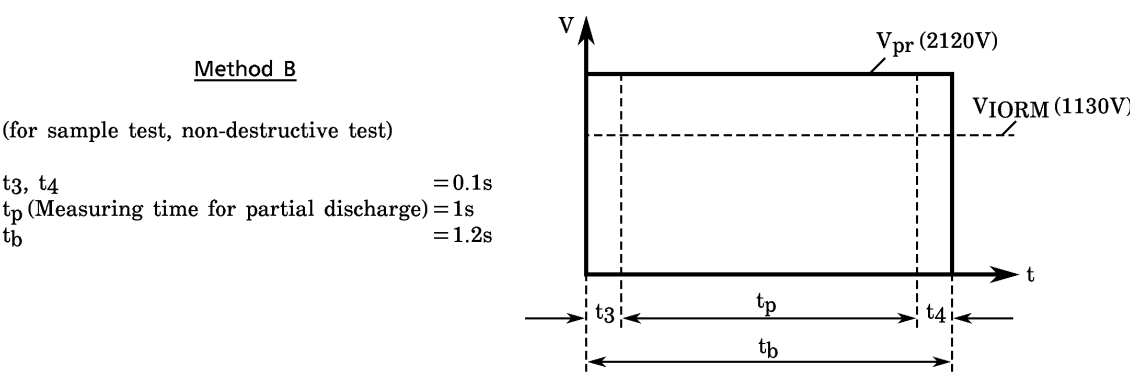
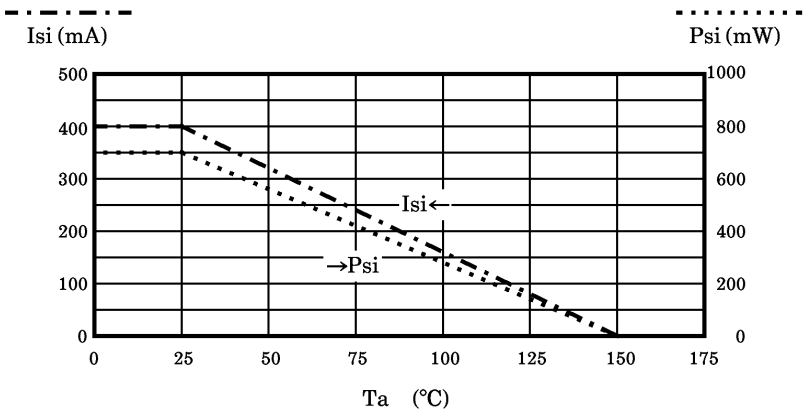


Figure 3 Dependency of maximum safety ratings on ambient temperature



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000707EBC

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