

UNCONTROLLED DOCUMENT

PART NUMBER		REV.
OCP-PCDB116/X-TR		
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE

ELECTRO-OPTICAL CHARACTERISTICS (Ta=25°C)

	PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
I	FORWARD VOLTAGE	V _F	I _F =20mA	-	1.2	1.4	V
	PEAK FORWARD VOLTAGE	V _{FM}	I _{FM} =0.5A	-	-	3.5	V
	REVERSE CURRENT	I _R	V _R =4V	-	-	10	μA
	TERMINAL CAPACITANCE	C _t	V=0, f=1kHz	-	30	-	pF
O	COLLECTOR DARK CURRENT	I _{CE0}	V _{CE} =200V, I _F =0	-	-	10 ⁻⁶	A
T	CURRENT TRANSFER RATIO	CRT	I _F =1mA, V _{CE} =2V	600	-	9000	%
	COLLECTOR-EMITTER SATURATION VOLTAGE	V _{CE(sat)}	I _F =20mA, I _C =5mA	-	-	1.5	V
	ISOLATION RESISTANCE	R _{ISO}	DC500V	5x10 ¹⁰	-	-	ohm
	FLOATING CAPACITANCE	C _f	V=0, f=1MHz	-	0.6	1.0	pF
	CUT-OFF FREQUENCY	f _c	V _{CE} =5V, I _C =2mA, R _L =100ohm	-	7	-	kHz
	RESPONSE TIME (RISE)	t _r	V _{CE} =2V, I _C =20mA, R _L =100ohm	-	60	300	μS
	RESPONSE TIME (FALL)	t _f	V _{CE} =2V, I _C =20mA, R _L =100ohm	-	50	250	μS

I=INPUT, O=OUTPUT, T=TRANSFER CHARACTERISTICS.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

	PARAMETER	SYMBOL	MAX	UNITS
I	FORWARD CURRENT	I _F	50	mA
	PEAK FORWARD CURRENT	I _{FM}	1	A
	REVERSE VOLTAGE	V _R	6	V
	POWER DISSIPATION	P _D	70	mW
O	COLLECTOR-EMITTER VOLTAGE	V _{CE0}	300	V
	COLLECTOR-BASE VOLTAGE	V _{CB0}	300	V
	EMITTER-BASE VOLTAGE	V _{EB0}	6	V
	COLLECTOR CURRENT	I _C	150	mA
	COLLECTOR POWER DISSIPATION	P _C	200	mW
	TOTAL POWER DISSIPATION	P _{tot}	200	mW
	ISOLATION VOLTAGE 1 MIN.	V _{ISO}	5000	V _{RMS}
	OPERATING TEMP.	T _{opr}	- 30 TO + 100	°C
	STORAGE TEMP.	T _{stg}	- 55 TO + 125	°C
	SOLDERING TEMP.	T _{sol}	+ 260	°C
	2.0mm FROM BODY		10 SEC. MAX	

I=INPUT, O=OUTPUT.

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*UNLESS OTHERWISE SPECIFIED TOLERANCE IS ±0.25mm (±0.010")

REV.	PART NUMBER OCP-PCDB116/X-TR	CONFIDENTIAL INFORMATION THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.		LUMEX INCORPORATED 290 E. HELLEN ROAD PALATINE, ILLINOIS 60067 PHONE: 1-847-359-2790 WEB: HTTP://WWW.LUMEX.COM			
SIX PIN SURFACE MOUNT SINGLE CHANNEL PHOTOCOUPLER, PHOTODARLINGTON OUTPUT WITH EXTERNAL BASE CONNECTION.		RELIABILITY NOTE OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.		DRAWN BY: TM/BC	CHECKED BY: 	APPROVED BY: 	DATE: 9-29-99 PAGE: 2 OF 2 SCALE: N/A