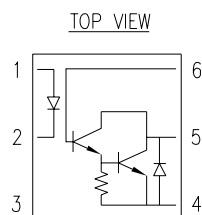
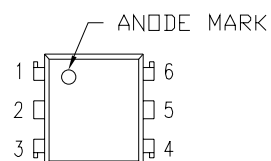


UNCONTROLLED DOCUMENT



NOTES:

1. ANODE
2. CATHODE
3. NO CONNECT
4. EMITTER
5. COLLECTOR
6. BASE

PART NUMBER
OCP-PCDB116/X

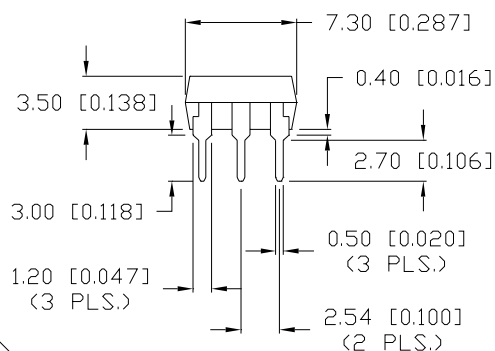
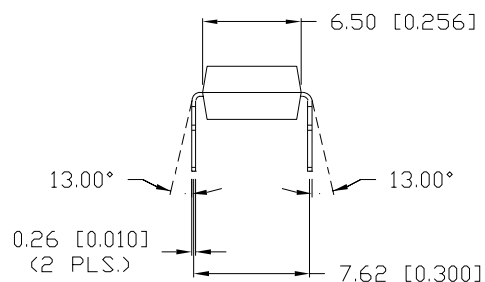
REV.

REV. E.C.N. NUMBER AND REVISION COMMENTS

DATE

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

PART NUMBER TABLE	
PART= /X	CTR (%)
/A	600 TO 2000
/B	1500 TO 4000
/C	3000 TO 6000
/D	5000 TO 9000
/E	600 TO 9000



ELECTRO-OPTICAL CHARACTERISTICS (T_a=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 _{CEO}	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 (T_a=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 _{CEO}	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.

UNCONTROLLED DOCUMENT

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

REV.

PART NUMBER

OCP-PCDB116/X

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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.

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DRAWN BY: CHECKED BY: APPROVED BY: DATE: 9-29-99

PAGE: 1 OF 1

SCALE: N/A

CK/DU

SIX PIN DIP SINGLE CHANNEL PHOTOCOUPLER,

PHOTODARLINGTON OUTPUT WITH EXTERNAL BASE CONNECTION.