

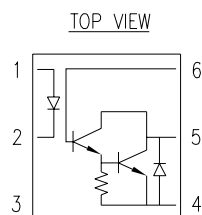
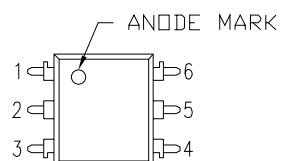
UNCONTROLLED DOCUMENT

PART NUMBER
OCP-PCDB116/X-TR

REV.

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

DATE

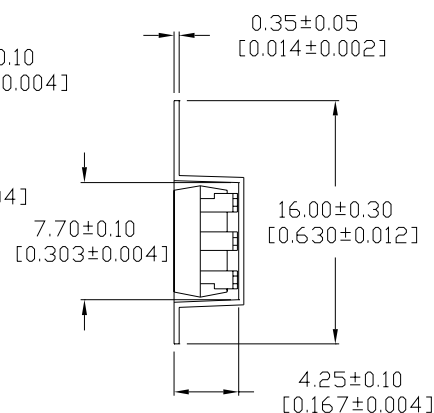
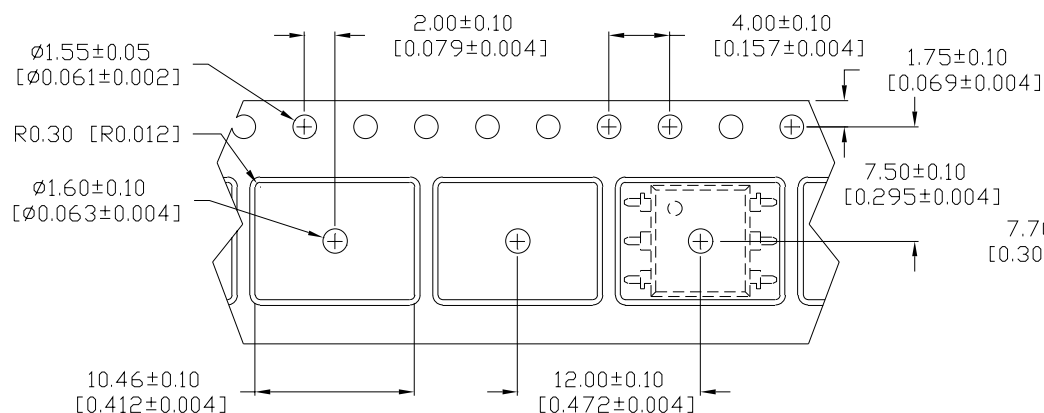
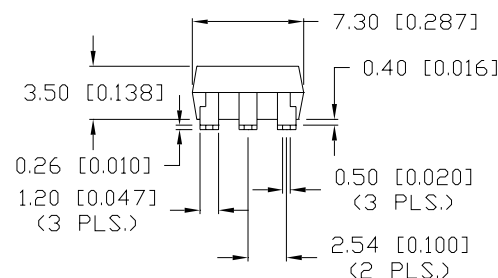
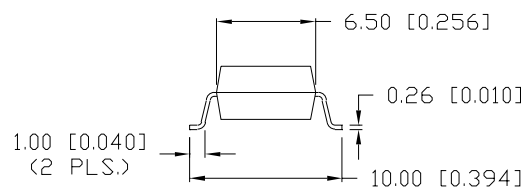


NOTES:

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

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



TAPE FEED DIRECTION →

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*UNLESS OTHERWISE SPECIFIED TOLERANCE IS $\pm 0.25\text{mm}$ ($\pm 0.010''$)

REV.

PART NUMBER

OCP-PCDB116/X-TR

SIX PIN SURFACE MOUNT SINGLE CHANNEL PHOTOCOUPLER,
PHOTODARLINGTON OUTPUT WITH EXTERNAL BASE CONNECTION.

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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 2

SCALE: N/A

TM/BC

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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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