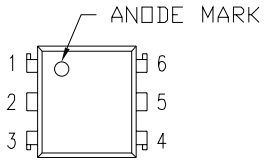
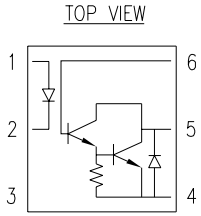
UNCONTROLLED DOCUMENT

PART NUMBER	REV.
OCP-PCDB116/X	

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

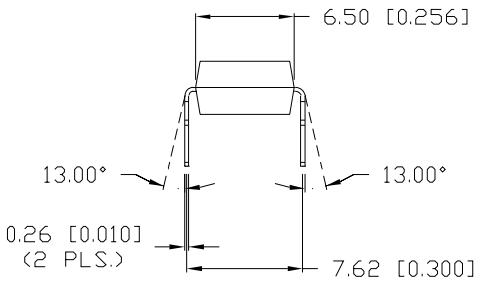


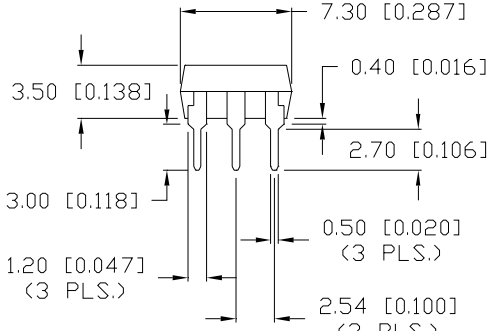


NOTES:

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

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_{CEO}	300	V
	COLLECTOR-BASE VOLTAGE	V_{CBO}	300	V
	EMITTER-BASE VOLTAGE	V_{EBO}	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.

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_{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.

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

REV.	PART NUMBER
	OCP-PCDB116/X

SIX PIN DIP SINGLE CHANNEL PHOTOCOUPLER,
PHOTDARLINGTON 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.

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CK/DU			PAGE: 1 OF 1
			SCALE: N/A