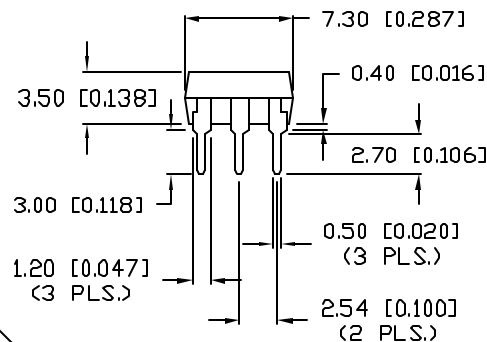
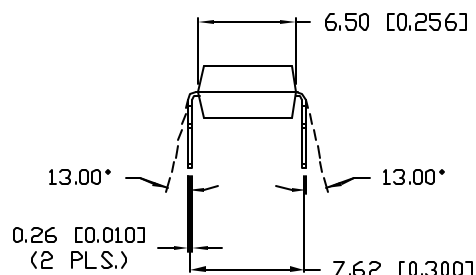


NOTES:

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

ELECTRO-OPTICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

	PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
I	FORWARD VOLTAGE	V_f	$I_f=20\text{mA}$	-	1.2	1.4	V
	PEAK FORWARD VOLTAGE	V_{FM}	$I_{FM}=0.5\text{A}$	-	-	3.5	V
	REVERSE CURRENT	I_R	$V_R=4\text{V}$	-	-	10	μA
	TERMINAL CAPACITANCE	C_t	$V=0, f=1\text{kHz}$	-	30	-	pF
O	COLLECTOR DARK CURRENT	I_{CEO}	$V_{CE}=200\text{V}, I_f=0$	-	-	10^{-6}	A
T	CURRENT TRANSFER RATIO	CRT	$I_f=1\text{mA}, V_{CE}=2\text{V}$	600	-	9000	%
	COLLECTOR-EMITTER SATURATION VOLTAGE	$V_{CE(sat)}$	$I_f=20\text{mA}, I_c=5\text{mA}$	-	-	1.5	V
	ISOLATION RESISTANCE	R_{ISO}	DC500V	5×10^{10}	-	-	ohm
	FLOATING CAPACITANCE	C_f	$V=0, f=1\text{MHz}$	-	0.6	1.0	pF
	CUT-OFF FREQUENCY	f_c	$V_{CE}=5\text{V}, I_c=2\text{mA}, R_L=100\text{ohm}$	-	7	-	kHz
	RESPONSE TIME (RISE)	t_r	$V_{CE}=2\text{V}, I_c=20\text{mA}, R_L=100\text{ohm}$	-	60	300	μS
	RESPONSE TIME (FALL)	t_f	$V_{CE}=2\text{V}, I_c=20\text{mA}, R_L=100\text{ohm}$	-	50	250	μS

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

PART NUMBER
OCP-PCDB116/EREV.
B

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & #10776.	8.16.01
B	E.C.N. #11148.	5.15.07

ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

	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_{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	Vrms
	OPERATING TEMP.	T_{opr}	-30 TO +100	$^\circ\text{C}$
	STORAGE TEMP.	T_{stg}	-55 TO +125	$^\circ\text{C}$
	SOLDERING TEMP.	T_{sld}	+260	$^\circ\text{C}$
	2.0mm FROM BODY		10 SEC. MAX	

I=INPUT, O=OUTPUT.

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN.=^{+DECIMAL PRECISION}_{-0.00}, MAX.=^{+0.00}_{-DECIMAL PRECISION}REV.
BPART NUMBER
OCP-PCDB116/E

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

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			PAGE: 1 OF 1
			SCALE: N/A