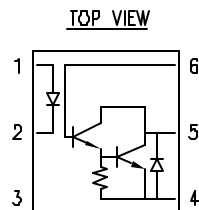
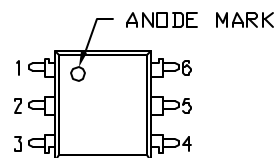
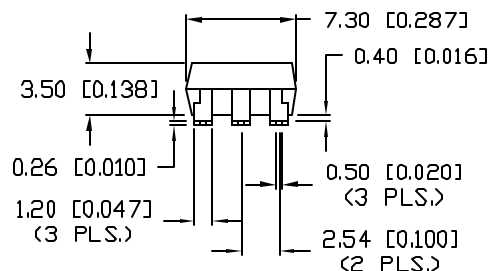
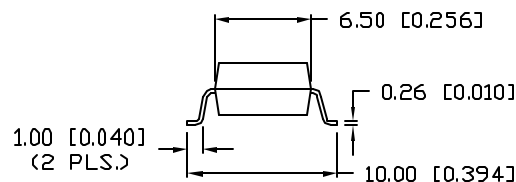


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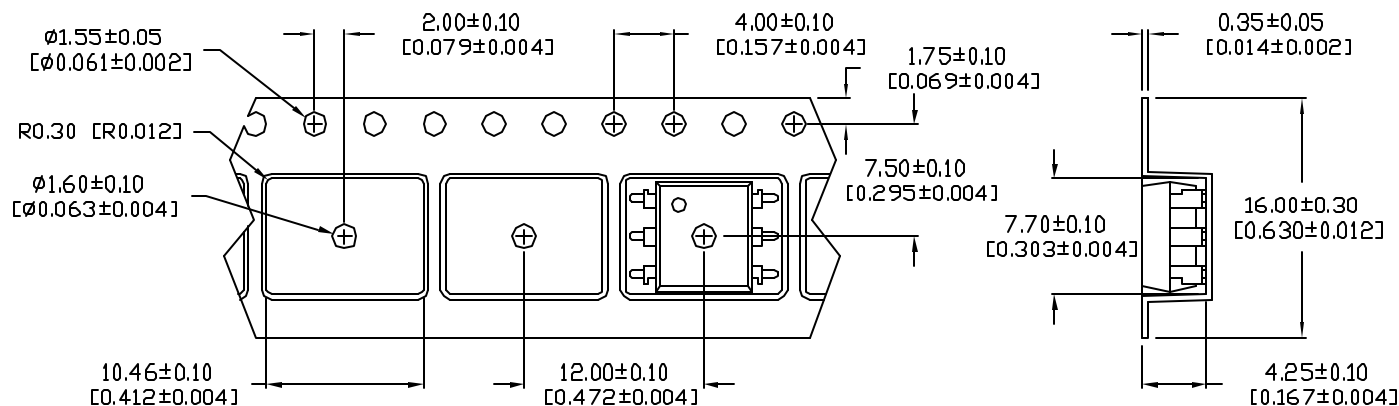
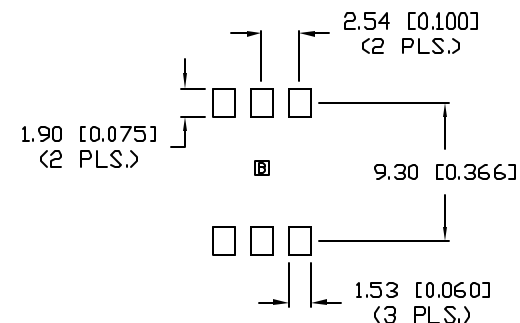


NOTES:

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



RECOMMENDED SOLDER PAD LAYOUT



TAPE FEED DIRECTION →

*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.

C

PART NUMBER

OCP-PCDB116/E-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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DATE: 9.29.99

PAGE: 1 OF 2

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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
0	COLLECTOR DARK CURRENT	I _{CE0}	V _{CE} =200V, I _F =0	-	-	10 ⁻⁸	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, 0=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
0	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, 0=OUTPUT.

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±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.

C

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