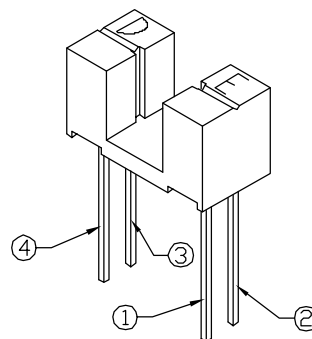
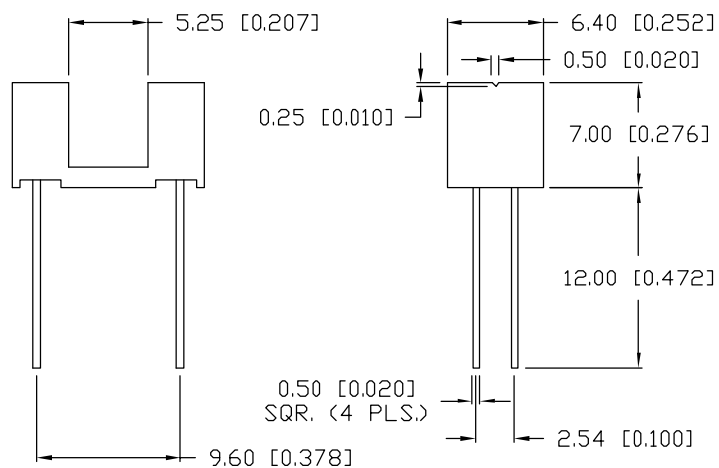
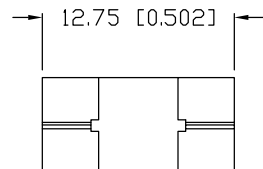
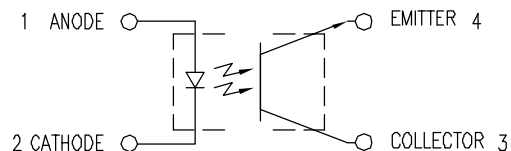


UNCONTROLLED DOCUMENT



TOP VIEW PIN LAYOUT

PART NUMBER
OED-SI5396

REV.

C

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN IN 3D.	5.16.03
B	E.C.N. #11148.	01.31.07
C	E.C.N. #11561.	03.25.09

ELECTRO-OPTICAL CHARACTERISTICS $T_A = 25^\circ\text{C}$ $I_f = 20\text{ mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		940		nm	
FORWARD VOLTAGE		1.2	1.5	V	$I_f = 20\text{ mA}$
REVERSE VOLTAGE			5.0	V	$I_c = 10\text{ }\mu\text{A}$
DARK CURRENT			100	nA	$V_{ce} = 20\text{ V}$
C/E SATURATION VOLTAGE			0.4	V	$I_c = 0.5\text{ mA}$
COLLECTOR ON CURRENT	0.5			mA	$V_{ce} = 5\text{ V}$
SWITCHING TIME		20		μS	$I_c = 1000\text{ mA}$ $V_{ce} = 5\text{ V}, R_l = 1000\text{ }\Omega$

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	1	A
REVERSE VOLTAGE	5	V
C/E BREAKDOWN VOLTAGE	30	V
E/C BREAKDOWN VOLTAGE	5	V
POWER DISSIPATION	75	mW
OPERATING TEMP.	-20 TO +85	$^\circ\text{C}$
STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0MM FROM BODY		3 SEC. MAX

* PULSE WIDTH $\geq 100\text{ }\mu\text{S}$, 1% DUTY CYCLE.

B



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*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 MAX=+0.00 -0.00 -DECIMAL PRECISION

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PHOTO INTERRUPTER.

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RELIABILITY NOTE

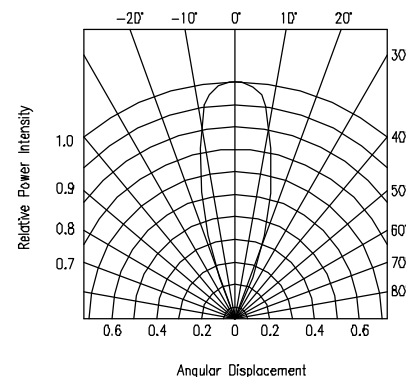
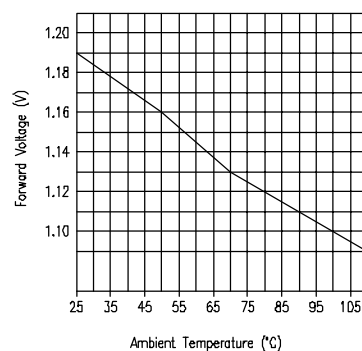
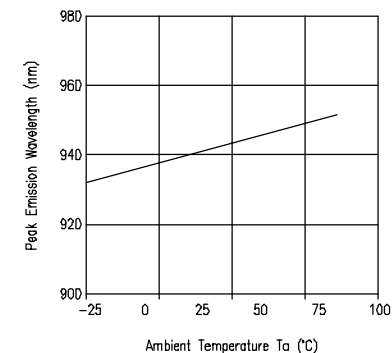
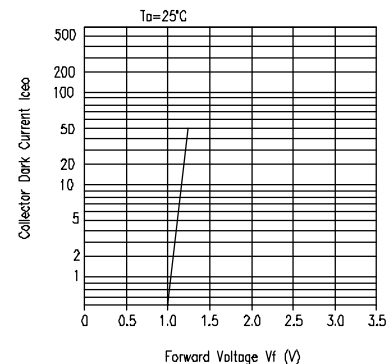
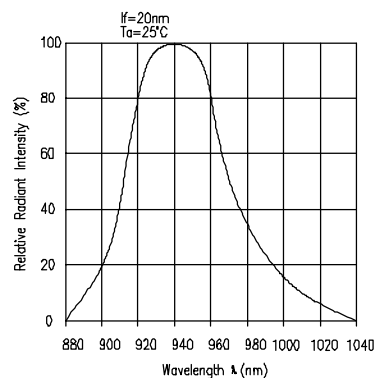
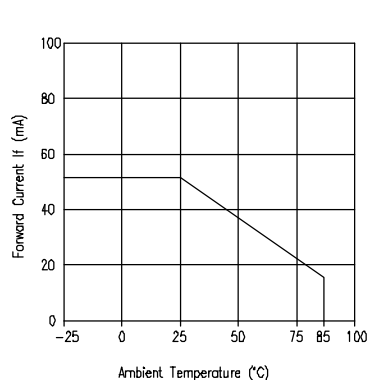
OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



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EMITTER OPERATING CURVES



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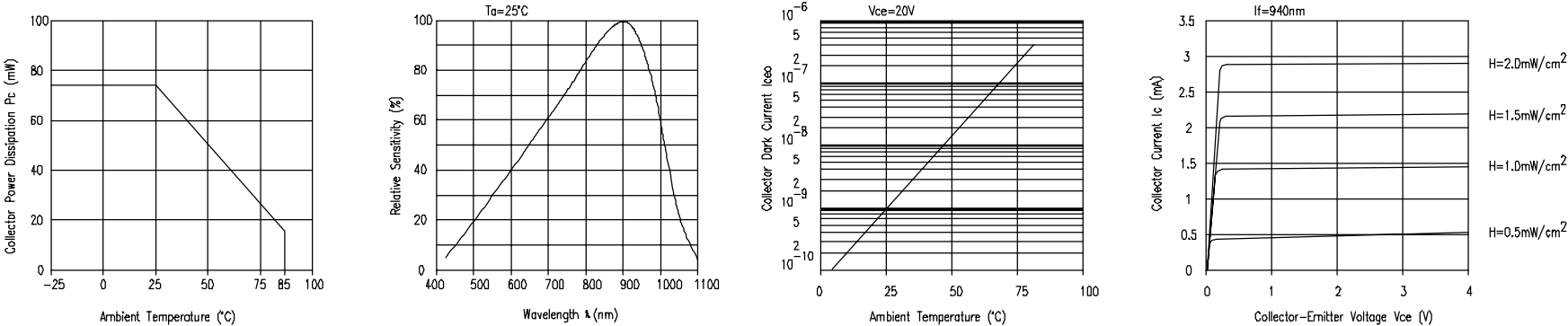
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PHOTO-TRANSISTOR OPERATING CURVES



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