

UNCONTROLLED DOCUMENT

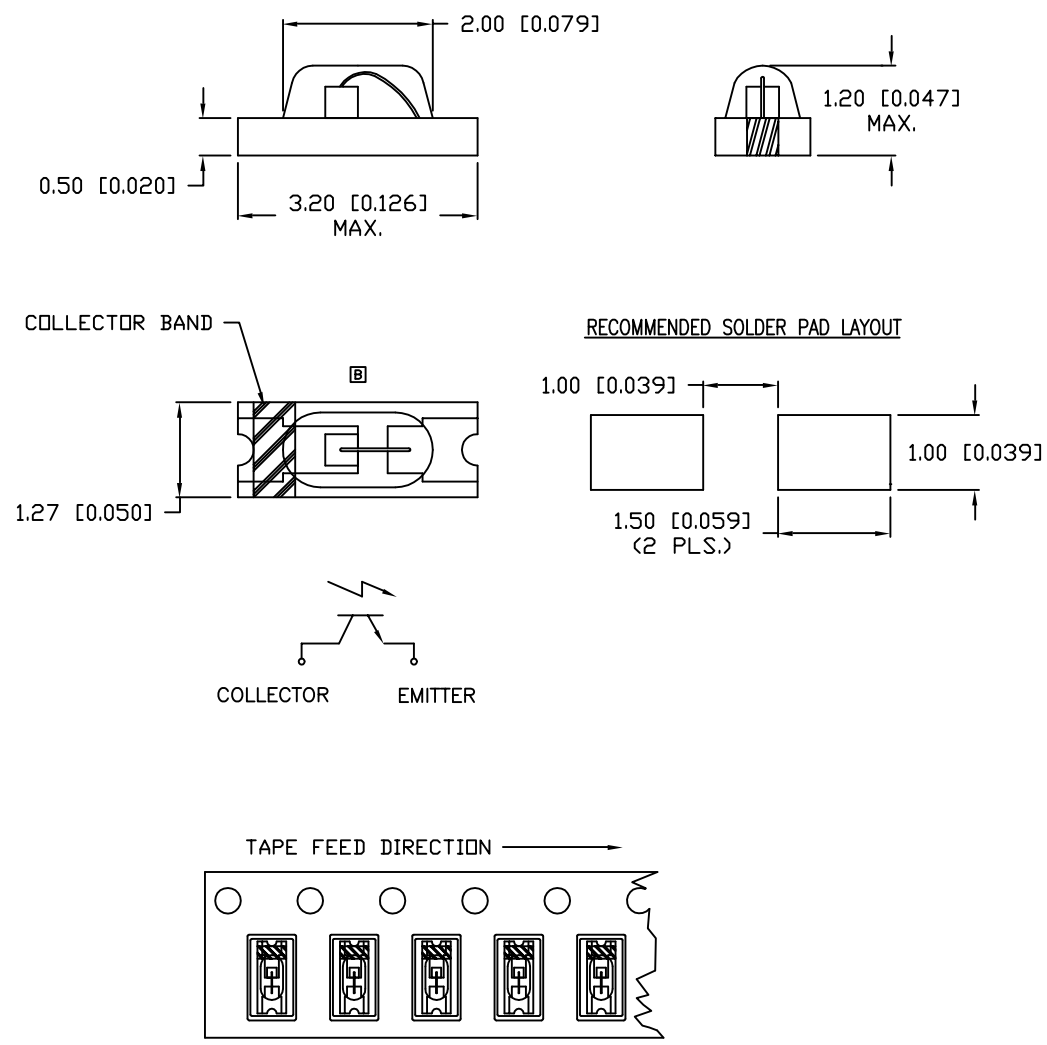
PART NUMBER		REV.
OED-ST-44F		D
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	1.5.95
B	E.C.N. #10434.	6.3.98
C	E.C.N. #10936. & #10BRDR	12.11.02
D	E.C.N. #E11062	12.3.03

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
COLLECTOR DARK CURRENT			400	nA	$V_{ce} = 10\text{V}$ $E_e = 0 \text{ mw/cm}^2$
COLLECTOR LIGHT CURRENT		3.0		mA	$V_{ce} = 5\text{V}$ $E_v=1000\text{LUX}$
COLLECTOR-EMITTER SATURATION VOLTAGE			0.3	V	$I_c=1\text{mA}$ $E_v=1000\text{LUX}$
SWITCHING SPEEDS:					$V_{ce}=5\text{V}$
	RISING TIME		10	$\mu\text{S}$	$I_c=1\text{mA}$
FALLING TIME		10		$\mu\text{S}$	$R_I = 1000 \Omega$
PEAK WAVELENGTH SENSITIVITY		850		nm	
LENS COLOR: WATER CLEAR					

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
COLLECTOR-EMITTER VOLTAGE ( $V_{ce0}$ )	70	V
EMITTER-COLLECTOR VOLTAGE ( $V_{ce0}$ )	5	mA
COLLECTOR CURRENT	100	mA
POWER DISSIPATION	200	mW
OPERATING TEMP.	-25 TO +85	°C
STORAGE TEMP.	-25 TO +120	°C



\*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=  $\frac{+DECIMAL PRECISION}{-0.00}$  MAX=  $\frac{+0.00}{-DECIMAL PRECISION}$

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REV. D	PART NUMBER OED-ST-44F
CERAMIC CHIP, SURFACE MOUNT PHOTOTRANSISTOR, WATER CLEAR LENS, TAPE AND REEL.	

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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.

290 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
US WEB: www.lumex.com  
TW WEB: www.lumex.com.tw

DRAWN BY: CT	CHECKED BY:	APPROVED BY:	DATE: 12.11.02
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			SCALE: N/A