

UNCONTROLLED DOCUMENT

PART NUMBER
OED-ST-44F

REV.

D

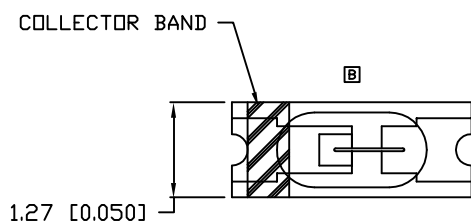
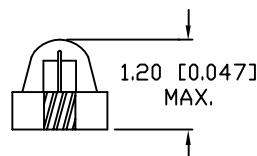
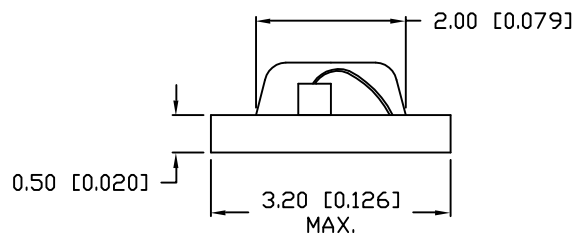
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	1.5.95
B	E.C.N. #10434.	6.3.98
C	E.C.N. #10936. & #10BRDR	12.11.02
D	E.C.N. #E11062	12.3.03

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

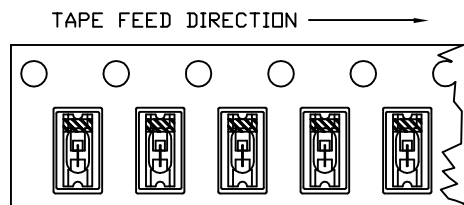
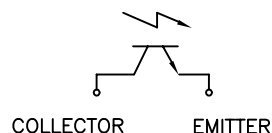
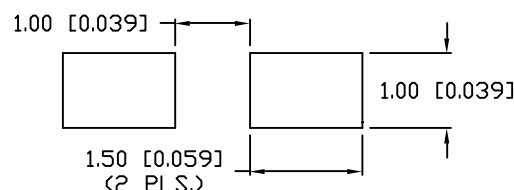
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
□ COLLECTOR DARK CURRENT			400	nA	$V_{ce} = 10\text{V}$ $E_e = 0 \text{ mw/cm}^2$
COLLECTOR LIGHT CURRENT		3.0		mA	$V_{ce} = 5\text{V}$ $E_v=1000\text{LUX}$
COLLECTOR-EMITTER SATURATION VOLTAGE			0.3	V	$I_c=1\text{mA}$ $E_v=1000\text{LUX}$
□ □ SWITCHING SPEEDS:					$V_{ce}=5\text{V}$ $I_c=1\text{mA}$ $R_I = 1000 \Omega$
RISING TIME		10		μS	
FALLING TIME		10		μS	
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	$^\circ\text{C}$
STORAGE TEMP.	-25 TO +120	$^\circ\text{C}$



RECOMMENDED SOLDER PAD LAYOUT



*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.

D

PART NUMBER
OED-ST-44FCERAMIC CHIP, SURFACE MOUNT PHOTOTRANSISTOR,
WATER CLEAR LENS, TAPE AND REEL.

CONFIDENTIAL INFORMATION

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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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Mouser Electronics

Authorized Distributor

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