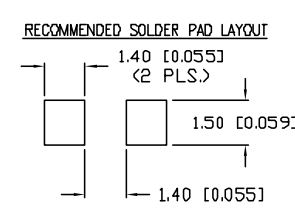
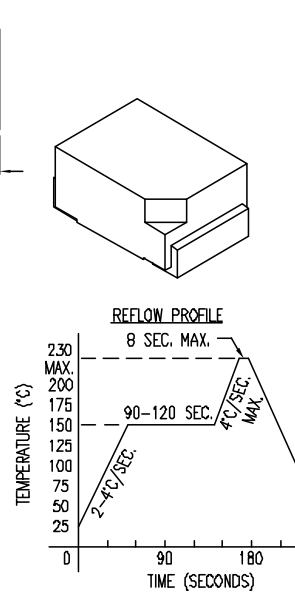
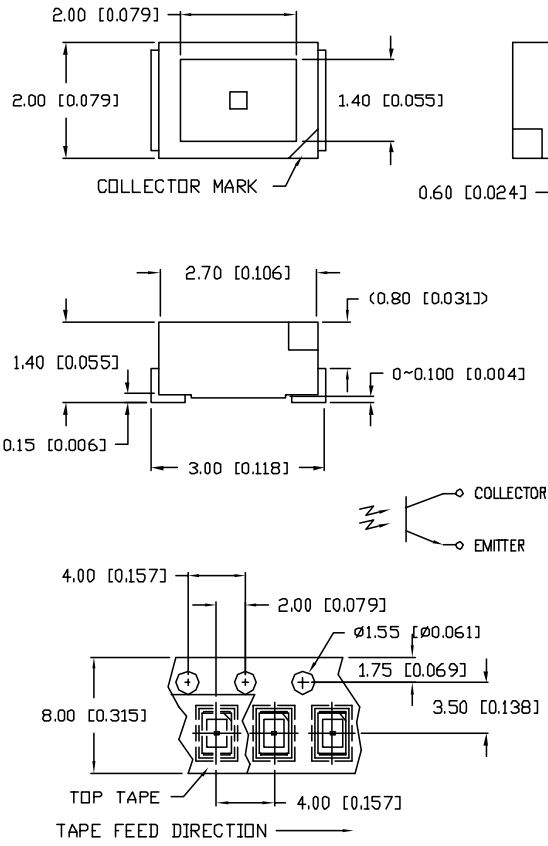


UNCONTROLLED DOCUMENT



PART NUMBER		REV.
OED-ST-23-TR		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR & REDRAWN IN 3D.	5.30.03

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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
SPECTRAL SENSITIVITY		940		nm	
C/E BREAKDOWN VOLTAGE	30			V	$I_c=100\mu\text{A}$ $E_e=0.0\text{ mW/cm}^2$
E/C BREAKDOWN VOLTAGE	5			V	$I_c=100\mu\text{A}$ $E_e=0.0\text{ mW/cm}^2$
C/E SATURATION VOLTAGE		0.8		V	$I_c=2\text{ mA}$ $E_e=20\text{ mW/cm}^2$
COLLECTOR DARK CURRENT		100		nA	$V_{ce}=10\text{ V}$ $E_e=0.0\text{ mW/cm}^2$
COLLECTOR ON CURRENT	0.7	2.0		mA	$V_{ce}=5\text{ V}$ $E_e=1.0\text{ mW/cm}^2$
SWITCHING TIME		3		μS	$I_c=1\text{ mA}$ $V_{ce}=5\text{ V}, R_l=1000\Omega$
EPOXY FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
C/E BREAKDOWN VOLTAGE	30	V
E/C BREAKDOWN VOLTAGE	5	V
POWER DISSIPATION	100	mW
OPERATING TEMP.	-40 TO +85	$^\circ\text{C}$
STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 STANDARDS

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*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=0.00 DECIMAL PRECISION MAX.=+0.00 DECIMAL PRECISION

REV.	PART NUMBER
A	OED-ST-23-TR

2mm x 3mm SURFACE MOUNT PHOTO TRANSISTOR,
WATER CLEAR LENS.

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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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