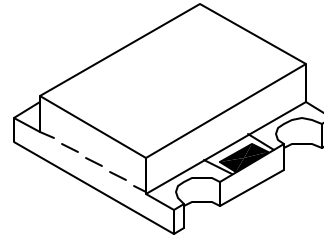
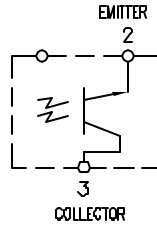
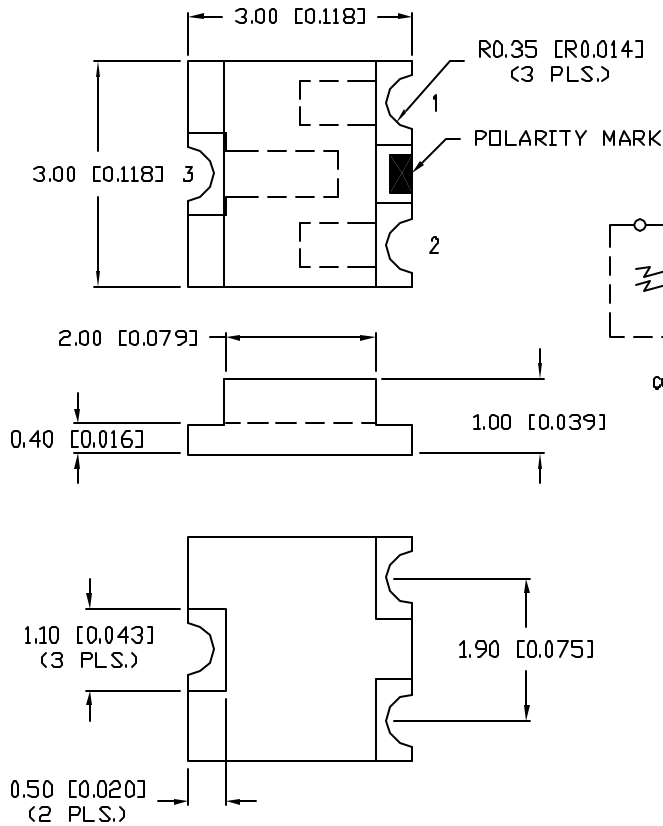


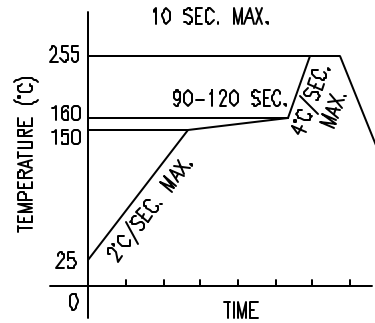
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PART NUMBER
OED-ST-15L-TR

REV.

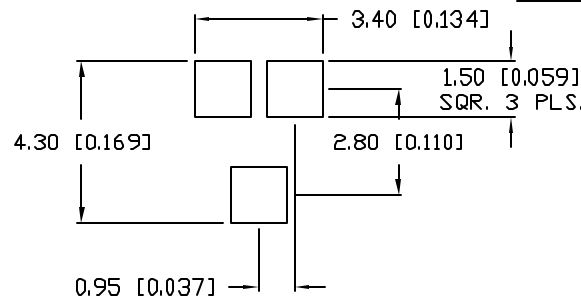


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED PAD LAYOUT



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

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
SPECTRAL SENSITIVITY		900		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			0.3	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	1.0	2.0		mA	$V_{ce}=5\text{ V}$ $E_e=1.0\text{ mW/cm}^2$
SWITCHING TIME		15		μS	$I_c=1\text{ mA}$ $V_{ce}=5\text{ V}, R_I=1000\Omega$

EPOXY FINISH: BLACK

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.	-20 TO +80	°C
STORAGE TEMP.	-20 TO +80	°C
SOLDERING TEMP.	+230	°C
2.0mm FROM BODY		3 SEC. MAX

NOTES:

- THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.



CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 STANDARDS

UNCONTROLLED DOCUMENT

*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.	PART NUMBER OED-ST-15L-TR
SOT-23 REPLACEMENT, SURFACE MOUNT LED, PHOTOTRANSISTOR, BLACK 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.

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