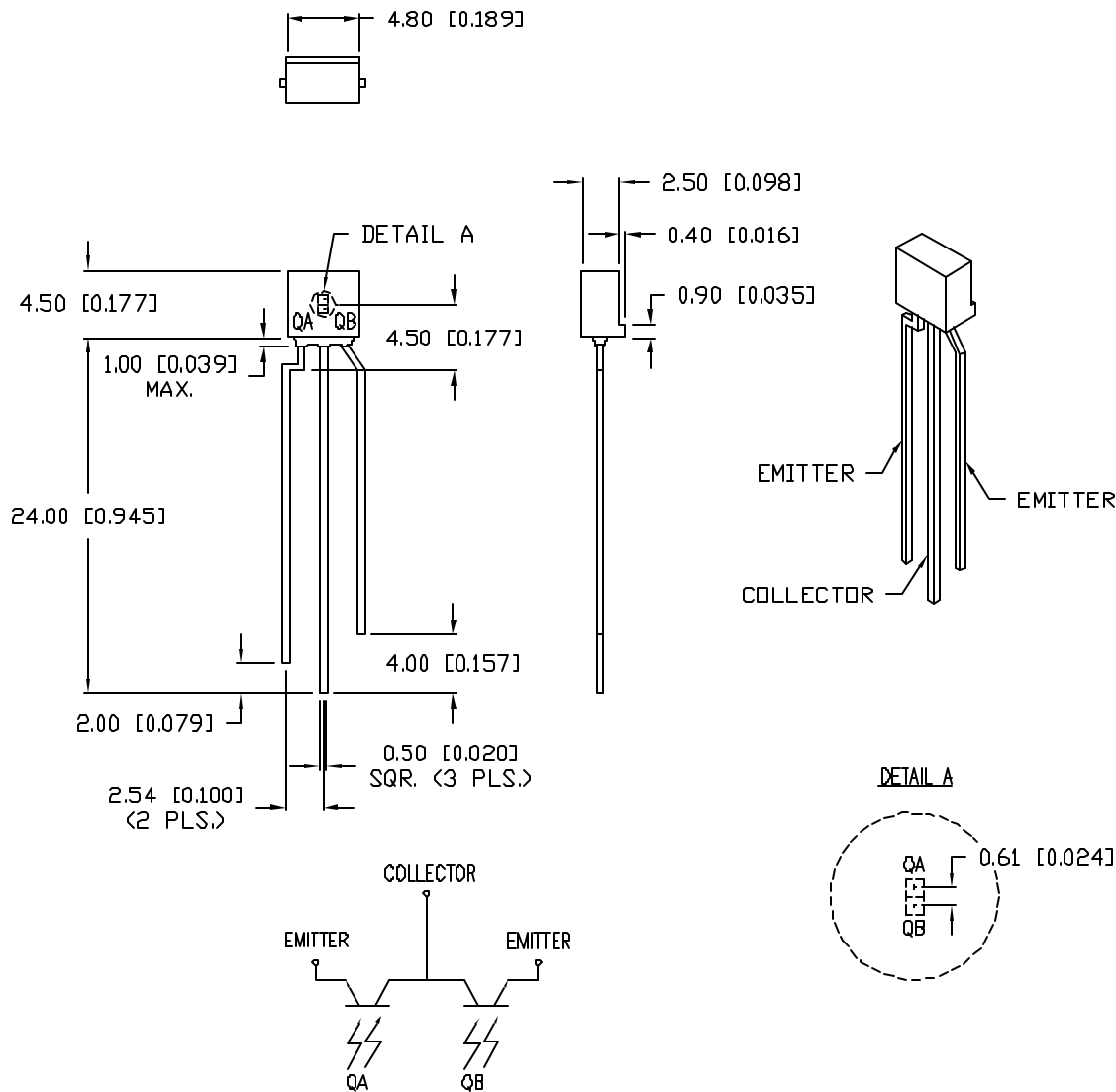


UNCONTROLLED DOCUMENT

PART NUMBER
OED-ST-391TREV.
B

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	1.5.98
B	E.C.N. #10BRDR. & REDRAWN IN 3D.	5.30.03

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

PARAMETER	SYMBOL	TEST CONDITION	MIN	TYP	MAX	UNIT
COLLECTOR DARK CURRENT	I_{ced}	$V_{ce} = 10\text{V}$ $E_e = 0.0\text{mW/cm}^2$			100	nA
COLLECTOR LIGHT CURRENT	I_c	$V_{ce} = 10\text{V}$ $E_e = 0.15\text{mW/cm}^2$	0.3	0.6		mA
COLLECTOR-EMITTER SATURATION VOLTAGE	$V_{ce(sat)}$	$I_c = 0.4\text{mA}$ $E_e = 0.5\text{mW/cm}^2$		0.3	0.4	V
SWITCHING SPEEDS:		$V_{cc} = 5\text{V}$ $I_c = 1\text{mA}$ $R_L = 1000\Omega$				
RISING TIME	T_r			15		μs
FALLING TIME	T_f			15		μs
PEAK WAVELENGTH	λ_p			800		nm
ANGULAR RESPONSE	$\Delta\theta$			± 70		DEG
LENS COLOR:				BLACK		

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
C/E BREAKDOWN VOLTAGE	30	V
E/C BREAKDOWN VOLTAGE	5	V
COLLECTOR CURRENT	20	mA
POWER DISSIPATION	75	mW
OPERATING TEMP.	-20 TO +70	$^\circ\text{C}$
STORAGE TEMP.	-25 TO +80	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY		3 SEC. MAX

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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 -DECIMAL PRECISION

REV.
BPART NUMBER
OED-ST-391T4.8mm x 4.5mm PHOTO TRANSISTOR,
BLACK LENS.

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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