



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	5.0			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	0.3	1.0		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:	BLUE TRANSPARENT				

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	$^\circ\text{C}$
SOLDERING TEMP.	+260	$^\circ\text{C}$
2.0mm FROM BODY		5 SEC. MAX

*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.

PART NUMBER
OED-ST305F4B50

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T-3mm (T-1) 940nm INFRARED DETECTOR,
BLUE TRANSPARENT LENS.

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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