

UNCONTROLLED DOCUMENT

PART NUMBER
OED-ST3052C16REV.
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		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			0.5	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	8.3	13		mA	$V_{ce} = 5\text{ V}$ $E_e = 1.0\text{ mW/cm}^2$
SWITCHING TIME		15		μS	$I_c = 1\text{ mA}$ $V_{ce} = 5\text{ V}, R_L = 1000\Omega$
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	75	mW
OPERATING TEMP.	-20 TO +70	$^\circ\text{C}$
STORAGE TEMP.	-30 TO +80	$^\circ\text{C}$
SOLDERING TEMP.	+230	$^\circ\text{C}$
2.0mm FROM BODY	3 SEC. MAX	

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*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), 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.
APART NUMBER
OED-ST3052C163mm 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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			SCALE: N/A

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