

## Excellent Integrated System Limited

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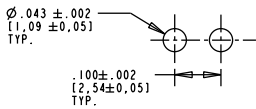
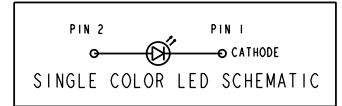
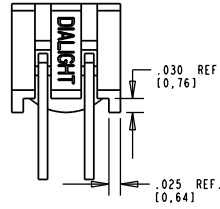
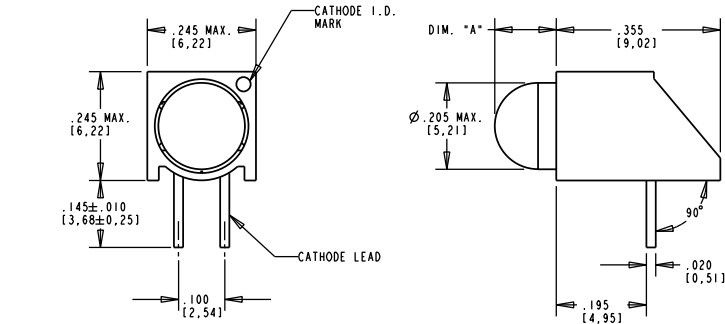
For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

ASSEMBLY NUMBER	LENS COLOR	DIM. "A"
550-0207	GREEN DIFFUSED	.135
550-0307	YELLOW DIFFUSED	.135
550-0407	RED DIFFUSED	.135
550-1007	BLUE NON-DIFFUSED	.193

OPERATING CHARACTERISTICS AT T <sub>a</sub> = 25°C							
LED CHARACTERISTICS		GREEN	YELLOW	RED	BLUE	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	MIN.	3.5	3.5	3.5	520	mcd	I <sub>f</sub> = 20 mA
	TYP.	12.3	12.3	12.3	1010		
PEAK WAVELENGTH	TYP.	565	585	635	470	nm	I <sub>f</sub> = 20 mA
FORWARD VOLTAGE	TYP.	2.1	2.1	2.0	3.8	V	I <sub>f</sub> = 20 mA
	MAX.	2.8	2.8	2.8	4.0		
REVERSE CURRENT	MAX.	100	100	100	100	μA	V <sub>r</sub> = 5 V
VIEWING ANGLE (2 Θ 1/2)	TYP.	60	60	60	30	DEG	
CAPACITANCE	TYP.	35	16	20	43	pF	V <sub>f</sub> = 0; f = 1 MHz

REV.	ECN NO.	REVISIONS	DRN.	CKD.	APP.	DATE
A		NEW RELEASE	TC	AV	NO	10-4-99
B		ADDED P/N 550-1007. ADDED NOTE 4. NOTE 5 WAS NOTE 4.	JAV			



RECOMMENDED PC BOARD HOLE PATTERN

NOTES:

- LAMP MUST BE SEATED ALL THE WAY DOWN INTO HOUSING. BENDS MUST BE TIGHT, NO LONGITUDINAL TRAVEL ALONG AXIS ALLOWED.
- LEADS TO BE FREE OF DEFORMATION AFTER BENDING AND CUTTING.
- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
- ATTENTION: OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES. FOR EYE SAFETY DO NOT STARE DIRECTLY INTO THE LIGHT BEAM OF THESE LED DEVICES AT CLOSE RANGE.
- DIALIGHT PART NUMBER: 550-0207, -0307, -0407, -1007.

ABSOLUTE MAXIMUM RATINGS AT T <sub>a</sub> = 25°C					
PARAMETER	LED COLOR				UNITS
	GREEN	YELLOW	RED	BLUE	
POWER DISSIPATION	100	60	80	120	mW
CONTINUOUS FORWARD CURRENT	30	20	40	30	mA
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH)	120	80	200	100	mA
DERATING LINEARLY FROM 25°C	0.4	0.25	0.5	0.55	mA/°C
REVERSE VOLTAGE	5				V
SOLDERING TEMPERATURE (.063 IN. FROM BODY)	260°C FOR 5 SEC.				°C
OPERATING TEMPERATURE	-55 TO +100		-40 TO +80		°C
STORAGE TEMPERATURE	-55 TO +100		-40 TO +100		°C

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SCALE: 5:1	DRAWING NUMBER
TOLERANCES: UNLESS OTHERWISE SPECIFIED	REV
FRACTIONS: ±1/64	C-16602
DECIMALS (.XX): ±.020	B
DECIMALS (.XXX): ±.015	TITLE
ANGLES: ±1°	5mm LED CB1
FINISH:	MATERIAL
FSCM 83330	Dialight
	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727
	SHEET OF
	FAMILY TABLE: