

## Excellent Integrated System Limited

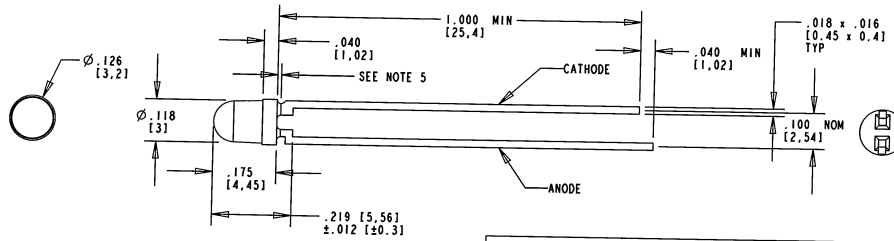
Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Dialight](#)  
[5219888F](#)

For any questions, you can email us directly:  
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A		NEW RELEASE	SM	CL	TE	9-16-08



ABSOLUTE MAXIMUM RATING AT 25°C AMBIENT		
	RED	UNITS
POWER DISSIPATION	120	mW
DERATE LINEARLY FROM 70°C	0.6	mA/°C
CONTINUOUS FORWARD CURRENT	50	mA
REVERSE VOLTAGE	5	V
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH)	160	mA
LEAD SOLDERING TEMPERATURE, 5 SEC., 1/16" FROM BODY	260	°C
OPERATING TEMPERATURE	-40 TO +100	°C
STORAGE TEMPERATURE	-55 TO +100	°C



**ATTENTION:**  
 OBSERVE PRECAUTIONS FOR  
 HANDLING ELECTROSTATIC  
 SENSITIVE DEVICES

**NOTES:**

- LED FINISH TIN - NICKEL ON COPPER
- LENS COLOR: ALLINGAP RED (TRANSPARENT)
- SOLDER ADHERANCE: BOTH LEADS PER MIL STD. 202E, METHODE 208C
- PARTS ARE TO BE PACKAGED IN BAG WITH LABEL IDENTIFYING THE FOLLOWING:  
 [ BIN CODE, DATE CODE, QTY PER BAG AND DIALIGHT PART NUMBER ]
- PROTRUDED RESIN UNDER FLANGE IS .040 [1.0mm] MAX
- LEAD SPACING IS MEASURED WHERE THE LEADS EMERGE FROM THE PACKAGE
- DIALIGHT PART NUMBER: 521-9888F
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.

RoHS Compliant 521-9888F  
 Part Numbers with the "F" suffix ending are RoHS Compliant.  
 Packaging is marked with "RoHS Compliant" label or equivalent markings.  
 Parts can be wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 5 sec.

OPERATING CHARACTERISTICS AT 25°C AMBIENT					
CHARACTERISTICS	MIN	TYP	MAX	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	100	300		mc d	$I_f = 20 \text{ mA}$
FORWARD VOLTAGE		2.0	2.4	V	$I_f = 20 \text{ mA}$
REVERSE CURRENT			100	$\mu\text{A}$	$V_r = 5 \text{ V}$
PEAK WAVELENGTH		632		nm	
DOMINANT WAVELENGTH		624		nm	
VIEWING ANGLE		45		Degree	
CAPACITANCE		40		pF	$V_r = 0, f = 1 \text{ MHz}$

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SCALE: DRAWING SCALE	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-17659	A
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE: 3mm LED	
FRACTIONS: ±1/64	MATERIAL: ROHS COMPLIANT	
DECIMALS (.xxx): ±.02	DIALIGHT	
DECIMALS (.xxxx): ±.010	1501 ROUTE 34 SOUTH	
DECIMALS (.xxxxx): ±.0005	FARMINGDALE, NJ 07727	
ANGLES: ±1°	FSCM 83330	
SHEET 1 OF 1 FAMILY TABLE:		