

Excellent Integrated System Limited

Stocking Distributor

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

[Lumex, Inc.](#)
[SSL-LX509F3ID](#)

For any questions, you can email us directly:
sales@integrated-circuit.com

DATE	REVISIONS	REV	DRAWING NUMBER	REV																																																																								
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			<p style="text-align:center;">ELECTRO-OPTICAL CHARACTERISTICS $T_A = 25^\circ\text{C}$ $I_f = 20\text{mA}$</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>PARAMETER</th> <th>MIN</th> <th>TYP</th> <th>MAX</th> <th>UNITS</th> <th>TEST COND</th> </tr> </thead> <tbody> <tr> <td>PEAK WAVELENGTH</td> <td></td> <td>635 (RED)</td> <td></td> <td>nm</td> <td></td> </tr> <tr> <td>FORWARD VOLTAGE</td> <td></td> <td>2.0</td> <td>2.5</td> <td>V_f</td> <td></td> </tr> <tr> <td>REVERSE VOLTAGE</td> <td>5.0</td> <td></td> <td></td> <td>V_r</td> <td>$I_r = 100\mu\text{A}$</td> </tr> <tr> <td>AXIAL INTENSITY</td> <td></td> <td>40</td> <td></td> <td>mcd</td> <td>$I_f = 20\text{mA}$</td> </tr> <tr> <td>VIEWING ANGLE</td> <td></td> <td>60</td> <td></td> <td>2x theta</td> <td></td> </tr> <tr> <td>EMITTED COLOR:</td> <td colspan="5">RED</td> </tr> <tr> <td>EPOXY LENS FINISH:</td> <td colspan="5">RED DIFFUSED</td> </tr> </tbody> </table> <p style="text-align:center;">LIMITS OF SAFE OPERATION AT 25°C PER CHIP</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>PARAMETER</th> <th>MAX</th> <th>UNITS</th> </tr> </thead> <tbody> <tr> <td>PEAK FORWARD CURRENT*</td> <td>150</td> <td>mA</td> </tr> <tr> <td>STEADY CURRENT</td> <td>30</td> <td>mA</td> </tr> <tr> <td>POWER DISSIPATION</td> <td>105</td> <td>mW</td> </tr> <tr> <td>DERATE FROM 25°C</td> <td>-1.2</td> <td>mW/°C</td> </tr> <tr> <td>OPERATING, STORAGE TEMP.</td> <td>-40 TO +85</td> <td>°C</td> </tr> <tr> <td>SOLDERING TEMP.</td> <td>+260</td> <td>°C</td> </tr> <tr> <td>2.0mm FROM BODY</td> <td></td> <td>3 SEC. MAX</td> </tr> </tbody> </table> <p>* $t < 10\mu\text{s}$</p> <p>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.</p>		PARAMETER	MIN	TYP	MAX	UNITS	TEST COND	PEAK WAVELENGTH		635 (RED)		nm		FORWARD VOLTAGE		2.0	2.5	V_f		REVERSE VOLTAGE	5.0			V_r	$I_r = 100\mu\text{A}$	AXIAL INTENSITY		40		mcd	$I_f = 20\text{mA}$	VIEWING ANGLE		60		2x theta		EMITTED COLOR:	RED					EPOXY LENS FINISH:	RED DIFFUSED					PARAMETER	MAX	UNITS	PEAK FORWARD CURRENT*	150	mA	STEADY CURRENT	30	mA	POWER DISSIPATION	105	mW	DERATE FROM 25°C	-1.2	mW/°C	OPERATING, STORAGE TEMP.	-40 TO +85	°C	SOLDERING TEMP.	+260	°C	2.0mm FROM BODY		3 SEC. MAX
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