



We Tame Photons to Work for You!



Products > LEDs > Thru-Hole > Rectangular > 2.5mm x 7mm



Features / Options

- ▶ State-of-the-Art, High Brightness Chip Technology
- ▶ Choice of Colors and Lens Finishes
- ▶ Lead Frame / Lens Casting Reliability
- ▶ Easy-to-Solder Leads, Tin Finish
- ▶ Available Bulk or on Tape and Reel
- ▶ Lead Trimming and Forming Available
- ▶ Custom Shapes, Easily Tooled, Low Minimum

Applications / Uses

- ▶ Board or Panel Indication or Illumination
- ▶ Annunciator and Control Panels
- ▶ Telecom Switches and Central Station Equipment
- ▶ Large Panel Indicators

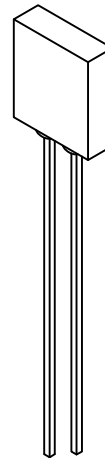
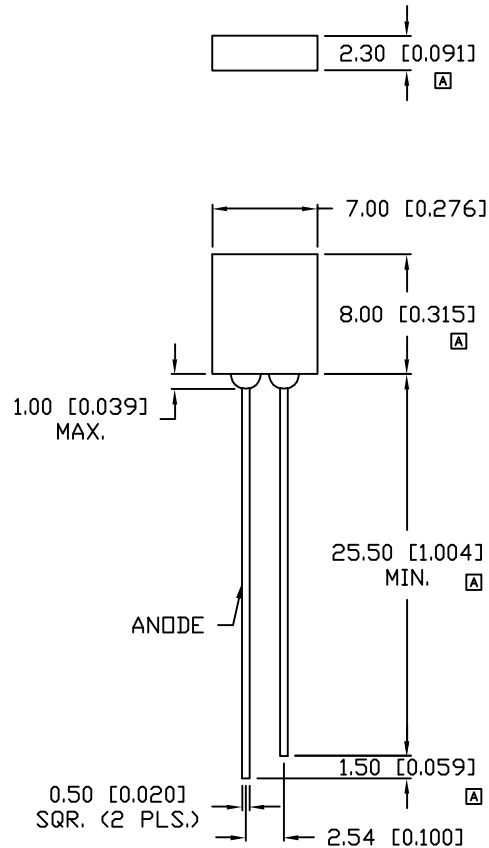
Part Number:	Brightness	Dice Material	Emitted Color	Peak Wavelength	Epoxy Lens	Operating Typ Vf (V)	Intensity Typ, mcd @ 20 mA	View Angle 2x Theta		
SSL-LX25783GD	STANDARD	GaP	Green	565	Diffused	2.0	9	110		—
SSL-LX25783HGW	STANDARD	GaP	Red/Green	700	White Diffused	2	5	60		—
SSL-LX25783ID	STANDARD	GaAsP	Red	635	Diffused	2.0	9	80		—
SSL-LX25783SGD	STANDARD	GaP	Green	565	Diffused	2.2	35	110		—
SSL-LX25783SID	HIGH	AlInGaP	Red	636	Diffused	2.0	70	110		—
SSL-LX25783SOD	HIGH	AlInGaP	Orange	610	Diffused	2.0	70	110		—
SSL-LX25783SRD	STANDARD	GaAlAs	Red	660	Diffused	1.8	50	110		—
SSL-LX25783SUGD	HIGH	AlInGaP	Green	574	Diffused	2.2	20	110		—
SSL-LX25783SYD	HIGH	AlInGaP	Yellow	590	Diffused	2.0	160	110		—
SSL-LX25783USBD	HIGH	InGaN	Blue	470	Diffused	3.5	50	110		—

UNCONTROLLED DOCUMENT

PART NUMBER
SSL-LX25783ID

REV.
A

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10702.	1.10.01



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $I_f=20\text{mA}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		635		nm	
FORWARD VOLTAGE		2.0	2.8	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_f=100\mu\text{A}$
AXIAL INTENSITY		9		mcd	$I_f=20\text{mA}$
VIEWING ANGLE		80		$2x$ theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	RED DIFFUSED				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	110	mW
DERATE FROM 25°C	-1.2	$\text{mW}/^{\circ}\text{C}$
OPERATING, STORAGE TEMP.	-55 TO +85	$^{\circ}\text{C}$
SOLDERING TEMP.	+260	$^{\circ}\text{C}$
2.0mm FROM BODY		3 SEC. MAX

* $t < 10\mu\text{s}$

*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

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2.3mm x 8mm RECTANGULAR RED DIFFUSED LED.

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.

DRAWN BY: CT	CHECKED BY:	APPROVED BY:	DATE: 8.5.95
			PAGE: 1 OF 1
			SCALE: N/A