

Device Number: DDS-315-005 REV: 1.1

0.36" Single Digit Displays

PART NO.: ELS-315HDR ECN: Page: 1/5

- Features:
- Industrial standard size.
- Low power consumption.
- Categorized for luminous intensity.
- Descriptions:
 - The ELS-315 series is a large 9.14mm (0.36")high seven segment display designed for viewing distances up to 7 meters.
 - These displays provide excellent reliability in bright ambient light.
 - These devices are made with red segments and red surface.

Applications:

- Audio equipment
- Instrument panels
- Digital read out display

PART NO.	Chip		
	Material	Emitted Color	
ELS-315HDR	GaP	Bright Red	

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FAX: 886-2-2267-6244,22676189,22676306

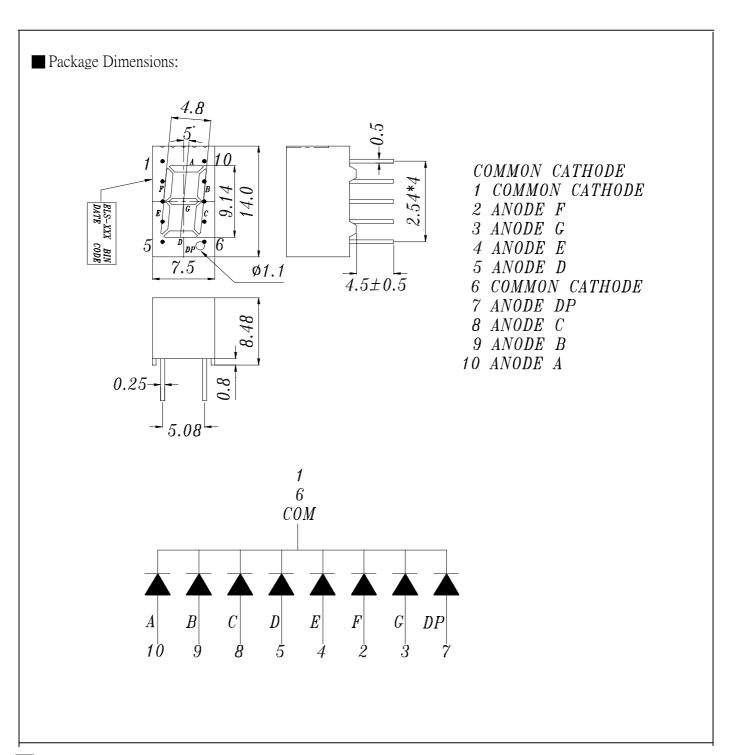
http://www.everlight.com



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Notes:

- 1.All dimensions are in millimeters, tolerance is 0.25mm unless otherwise noted.
- 2. Above specification may be changed without notice.

Supplier will reserve authority on material change for above specification.

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Absolute maximum ratings at $Ta = 25^{\circ}C$:

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Parameter	Symbol	Rating	Unit		
Reverse Voltage	VR	5	V		
Forward Current	IF	15	mA		
Operating Temperature	Topr	-40 to +85	$^{\circ}\!\mathbb{C}$		
Storage Temperature	Tstg	-40 to +100	$^{\circ}\!\mathbb{C}$		
Soldering Temperature	Tsol	260 ± 5	$^{\circ}\!\mathbb{C}$		
Power Dissipation	Pd	45	mW		
Peak Forward Current(Duty 1/10 @ 1KHZ)	IF(Peak)	50	mA		

Electronic optical characteristics:

Parameter		Symbol	Min.	Тур.	Max.	Unit	Condition	
Luminous Intensity	Per segment	Iv	0.18	0.3		mcd	IF=10mA	
	Per decimal point		0.05	0.15		IIICu		
Peak Wavelength		λp		697		nm	IF=10mA	
Dominant Wavelength		λd		650		nm	IF=10mA	
Spectrum Radiation Bandwidth		Δλ		90		nm	IF=10mA	
Forward Voltage		VF	1.5	2.0	2.4	V	IF=10mA	
Reverse Current		IR			10	μΑ	VR=5V	



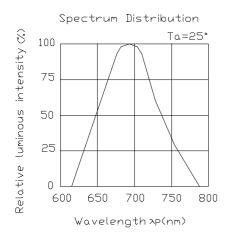
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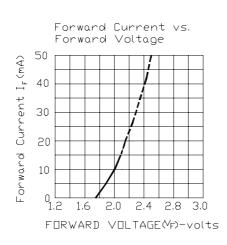
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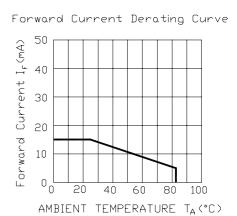
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Typical Electro-Optical Characteristic Curves:

CHIP Material:Gap Emitted Colon:Bright Red







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Reliability test items and conditions:							
NO	Item	Test Conditions	Sample Size	Ac/Re			
1	Solder Heat	TEMP : 260° C ± 5 $^{\circ}$ C	5 SEC	76 PCS	0/1		
2	Temperature Cycle	H: +85°C 30min ∫ 5 min L: -55°C 30min	50 CYCLE	76 PCS	0/1		
3	Thermal Shock	$H: +100^{\circ}\mathbb{C}$ 5min $\int 10 \sec L: -10^{\circ}\mathbb{C}$ 5min	50 CYCLE	76 PCS	0/1		
4	High Temperature Storage	TEMP: 100℃	1000 HRS	76 PCS	0/1		
5	Low Temperature Storage	TEMP : -55°C	1000 HRS	76 PCS	0/1		
6	DC Operating Life	IF = 10 mA	1000 HRS	76 PCS	0/1		
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1		