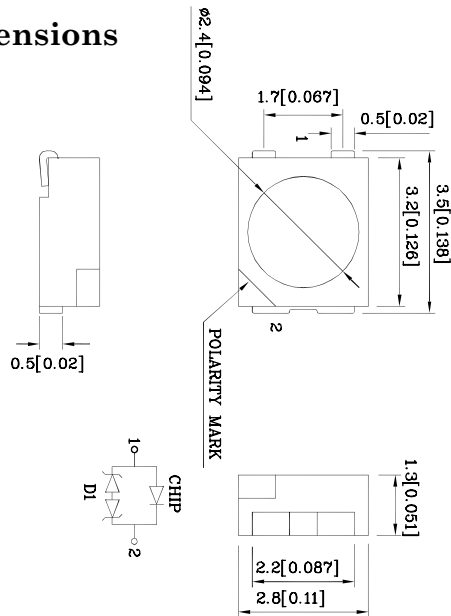


Package Dimensions

P/N: ECW109S
3.5X2.8MM WHITE SMD LED



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01)$ unless otherwise noted.
3. Specifications are subject to change without notice.

Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=150mA) mcd		Luminous Flux (IF=150mA) mlm		Viewing Angle 2 θ 1/2
			min.	typ.	min.	typ.	
White	InGaN	Water Clear	7500	10000	24000	33000	120°

Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Value	Unit
Power Dissipation	Pa	600	mW
Reverse Voltage	VR	5	V
Junction Temperature [1]	Tj	110	°C
Operating Temperature	Top	-40 To +85	°C
Storage Temperature	Tstg	-40 To +85	°C
DC Forward Current [1]	IF	150	mA
Peak Forward Current [2]	IFM	300	mA
Thermal Resistance [1] (Junction/ambient)	Rth j-a	180	°C/W
Thermal Resistance [1] (Junction/solder point)	Rth j-s	60	°C/W
Electrostatic Discharge Threshold (HBM)		8000	V

Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	Value	Unit
Forward Voltage IF = 150mA [Min.]	VF [2]	2.7	V
Forward Voltage IF = 150mA [Typ.]		3.5	
Forward Voltage IF = 150mA [Max.]		4.0	
Reverse Current VR=5V [Max.]	IR	10	uA
Chromaticity coordinate x acc. to CIE1931 IF = 150mA [Typ.]	x [1]	0.31	-
Chromaticity coordinate y acc. to CIE1931 IF = 150mA [Typ.]	y [1]	0.31	-
Temperature coefficient of x IF = 150mA, -10°C ≤ T ≤ 100°C [Typ.]	TCx	-0.15	10 ⁻³ /°C
Temperature coefficient of y IF = 150mA, -10°C ≤ T ≤ 100°C [Typ.]	TCy	-0.13	10 ⁻³ /°C
Temperature coefficient of VF IF = 150mA, -10°C ≤ T ≤ 100°C [Typ.]	TCv	-3.1	mV/°C