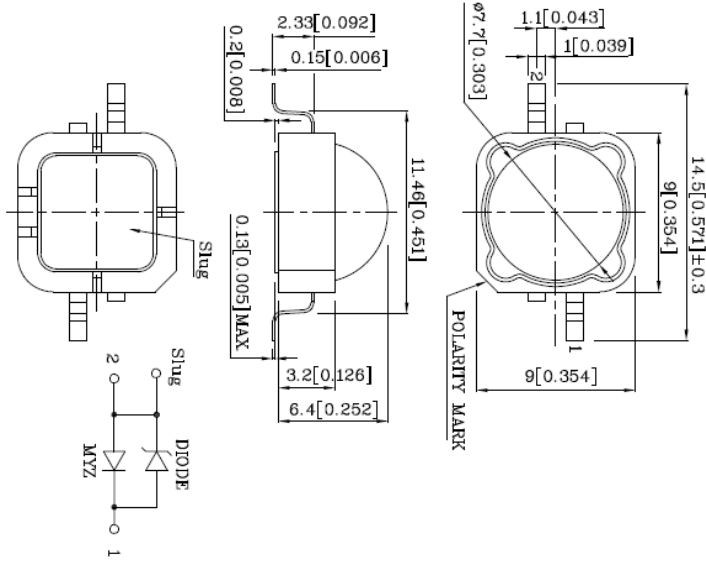


Package Dimensions

P/N: EMYZ106W

9x9mm High Power LED with Dome Lens



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.

Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=500mA) cd		Viewing Angle 2θ 1/2 [2]
			min.	typ.	
Yellow	InGaAlP	Water Clear	16	20	100°

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Value	Unit
Power dissipation	Pt	1.28	W
Junction temperature	Tj	110	°C
Operating Temperature	Top	-40 To +100	°C
Storage Temperature	Tstg	-40 To +100	°C
DC Forward Current [1]	If	500	mA
Peak Forward Current [3]	IfM	700	mA
Thermal resistance [1]	Rth j-amb	12	°C/W
Electrostatic Discharge Threshold (HBM)		8000	V
Iron Soldering [4]		350°C For 3 Seconds	

Notes:

- 1 Metal Core PCB is mounted on the heat fins.
- 2 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
- 3 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4 1.29mm below package base.

Electrical / Optical Characteristics at Ta=25°C

Parameter	Symbol	Value	Unit
Wavelength at peak emission IF=500mA [Typ.]	λ peak	598	nm
Dominant Wavelength IF=500mA [Typ.]	λ dom	591	nm
Spectral bandwidth at 50%Φ REL MAX IF=500mA [Typ.]	$\Delta\lambda$	23	nm
Forward Voltage IF=500mA [Min.]	Vf	2.0	V
Forward Voltage IF=500mA [Typ.]		2.5	
Forward Voltage IF=500mA [Max.]		3.1	
Temperature coefficient of Ipeak IF=500mA, -10°C ≤ T ≤ 100°C [Typ.]	TC λ peak	0.12	nm/°C
Temperature coefficient of Idom IF=500mA, -10°C ≤ T ≤ 100°C [Typ.]	TC λ dom	0.07	nm/°C
Temperature coefficient of Vf IF=500mA, -10°C ≤ T ≤ 100°C [Typ.]	TCv	-2.6	mV/°C