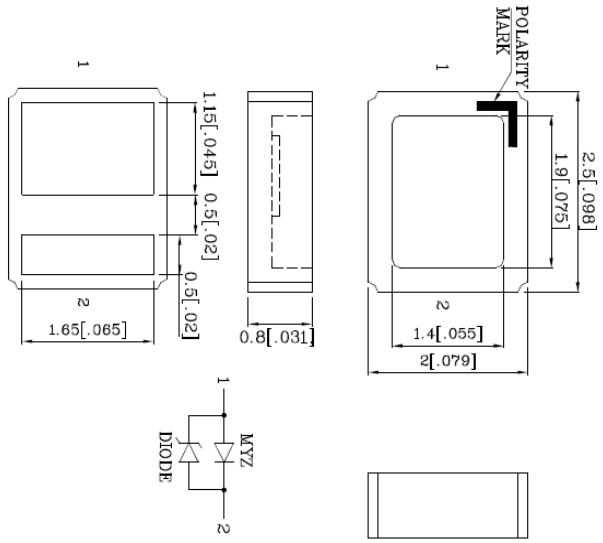
Package Dimensions

P/N: EMYZ115S
2.5X2.0mm SURFACE MOUNT LED LAMP



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=250mA) mcd		Luminous Flux (IF=250mA) lm		Viewing Angle 2 θ 1/2
			min.	typ.	min.	typ.	
Yellow	InGaAlP	Water Clear	3300	4490	10	14	130°

Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Value	Unit
Power dissipation	P_t	0.7	W
Junction temperature [1]	T_J	110	°C
Operating Temperature	Top	-40 To +100	°C
Storage Temperature	Tstg	-40 To +120	°C
DC Forward Current [1]	I_F	250	mA
Peak Forward Current [2]	I_{FM}	400	mA
Thermal resistance [1]	$R_{th\,j\text{-}a}$	140	°C/W
Electrostatic Discharge Threshold (HBM)		8000	V

Notes:
1. Results from mounting on PC board FR4(pad size>100mm²),mounted on pc board-metal core PCB is recommend for lowest thermal resistance.
2. 1/10 Duty Cycle, 0.1ms Pulse Width.

Electrical / Optical Characteristics at T_A=25°C

Parameter	Symbol	Value	Unit
Wavelength at peak emission IF=250mA [Typ.]	λ peak	598	nm
Dominant Wavelength IF=250mA [Typ.]	λ dom	591	nm
Spectral bandwidth at 50%FREL MAX IF=250mA [Typ.]	Δλ	23	nm
Forward Voltage IF=250mA [Min.]	VF	2.0	V
Forward Voltage IF=250mA [Typ.]		2.3	
Forward Voltage IF=250mA [Max.]		2.8	
Temperature coefficient of lpeak IF=250mA, -10°C≤ T≤100°C [Typ.]	TC λ peak	0.14	nm/°C
Temperature coefficient of ldom IF=250mA, -10°C≤ T≤100°C [Typ.]	TC λ dom	0.11	nm/°C
Temperature coefficient of VF IF=250mA, -10°C≤ T≤100°C [Typ.]	TCV	-2.4	mV/°C