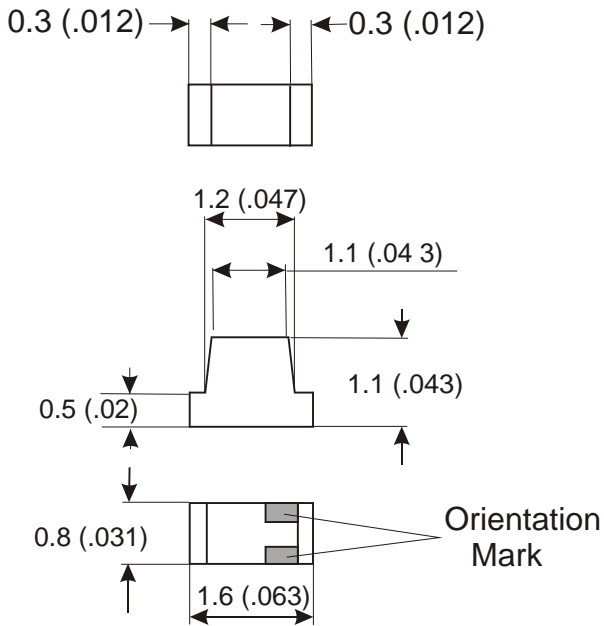


Surface Mount LED

1,6x0,8 mm

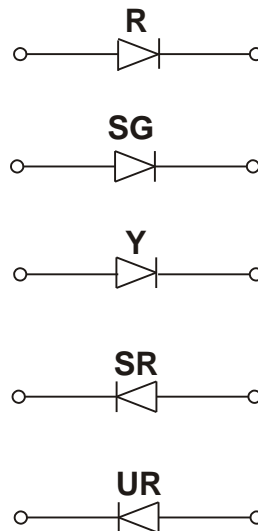


EM16-SERIES



Notes:

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



Note: according IEC 60825-1 (EN60825):

LED Radiation

Do not view directly with optical instruments class 1M LED product

PART NO	Source (Dice)	Lens Type (Resin)	Luminous Intensity MCD @ 20mA		Viewing Angle
			Min.	Max.	
EM 16R	Red High Efficiency (GaAsP/GaP)	Red Trans	4	12.5	120°
EM 16SG	Green Super Bright (GaP)	Green Trans	4	12.5	120°
EM 16Y	Yellow (GaAsP/GaP)	Yellow Trans	5	12.5	120°
EM 16SR	Red Super Bright (GaAlAs)	Red Trans	50	70	120°
EM 16UR	Red Ultra Bright (GaAlAs)	Red Trans	70	250	120°
EM 16UY	Yellow Ultra Bright (InGaAlP)	Yellow Trans	50	80	120°
EM 16A	Pure Orange (GaAsP/GaP)	Water Clear	4	10	120°

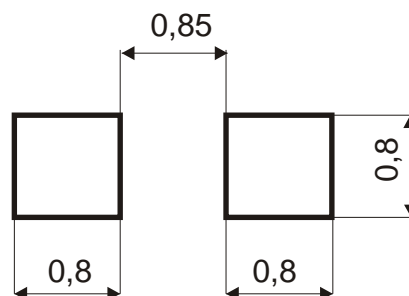
TECHNICAL DATA									
Absolute maximum ratings (TA=25° C)		SG Standard Green (GaP)	R Hi.Eff. Red (GaAs/GaP)	Y Yellow (GaAsP/GaP)	SR Super Bright Red (GaAlAs)	UR Red Ultra Bright (GaAlAs)	UY Yellow Ultra Bright (GaAlAs)	A Amber (GaAlAs)	Unit
Reverse voltage	V _R	5	5	5	5	5	5	5	V
Forward current	I _F	25	30	30	30	30	30	25	mA
Forward current (Peak) 1/10 Duty Cycle, 0,1ms Pulse Width	i _{FS}	150	150	150	150	150	150	145	mA
Power dissipation	P _T	105	105	105	100	100	125	105	mW
Operating temperature	T _A	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	°C
Storage temperature	T _{STG}	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	-40 ~ +85	°C

Operating characteristics (TA=25° C)		SG Standard Green (GaP)	R Hi.Eff. Red (GaAs/GaP)	Y Yellow (GaAsP/GaP)	SR Super Bright Red (GaAlAs)	UR Red Ultra Bright (GaAlAs)	UY Yellow Ultra Bright (GaAlAs)	A Amber (GaAlAs)	Unit
Forward voltage (typ.) I _F =20mA	V _F	2,2	2,0	2,1	1,85	1,85	2,0	2,05	V
Forward voltage (max.) I _F =20mA	V _F	2,5	2,5	2,5	2,5	2,5	2,5	2,5	V
Reverse current V _R =20mA	I _R	10	10	10	10	10	10	10	uA
Wavelength at peak emission I _F =20mA	λ _p	565	625	590	660	660	590	607	nm
Spectral line half-width I _F =20mA	Δλ	30	45	35	20	20	28	35	nm
Capacitance V _F =0V, f=1MHz	C	45	12	10	95	95	25	15	pF

SOLDER PAD RECOMMENDATION FOR THE FOLLOWING TECHNIQUES:

UNIT: mm

- convected reflow soldering
- wave soldering
- vapor phase soldering



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