



YETDA INDUSTRY LTD.

Technical Data Sheet

MODEL NO : Q194R4-M

Package 1.6*0.8mm*0.45mm Chip LEDs

Features :

- Package in 8mm tape on 7" diameter reel
- Compatible with automatic placement equipment
- Compatible with reflow solder process

Applications :

- Indicators
- Automotive : backlighting in dashboard and switch
- Backlight for LCD

Dice material	Emitted color	Lens Color
InGaAlP	RED	Water Clear

Electrical/Optical Characteristics(Ta=25°C)

Parameter	Test Condition	Symbol	Value			Unit
			Min	Typ	Max	
Dominant wavelength	I _F =20mA	λ_D	617		629	nm
Forward voltage	I _F =20mA	V _F	1.8		2.6	V
Luminous intensity	I _F =20mA	I _v	80		170	mcd
Viewing angle at 50% I _v	I _F =10mA	2 θ 1/2		120		Deg
Reverse current	V _R =5V	I _R			10	μ A

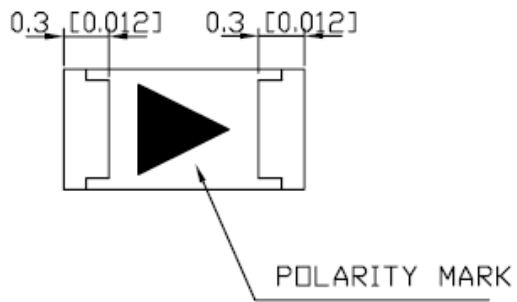
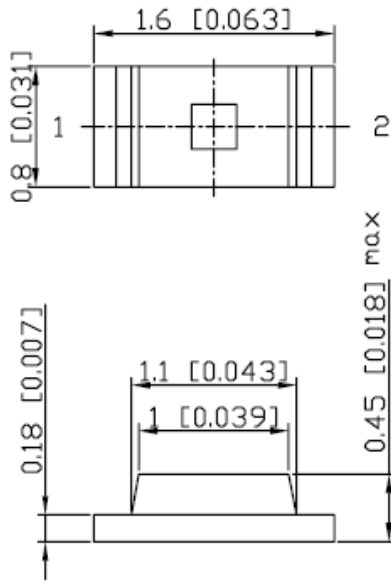
Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Value	Unit
Power dissipation	P _d	75	mW
Forward current	I _F	30	mA
Reverse voltage	V _R	5	V
Operating temperature range	T _{op}	-40 ~+80	°C
Storage temperature range	T _{stg}	-40 ~+85	°C
Peak pulsing current (1/8 duty f=1kHz)	I _{FP}	125	mA



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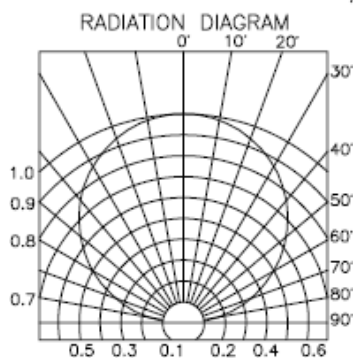
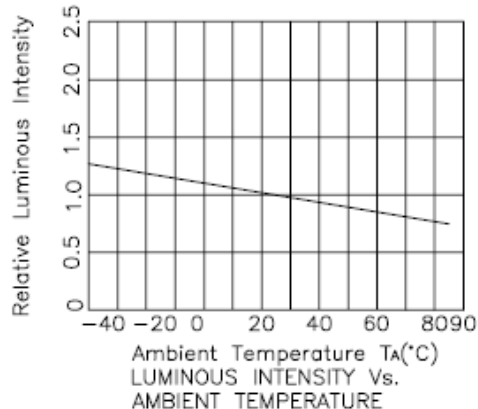
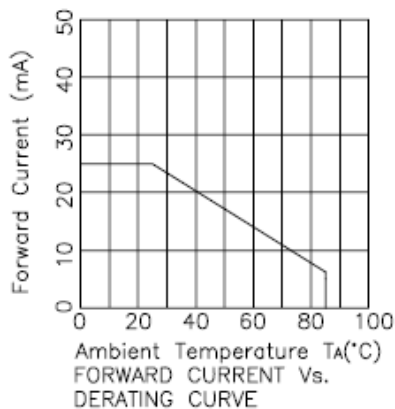
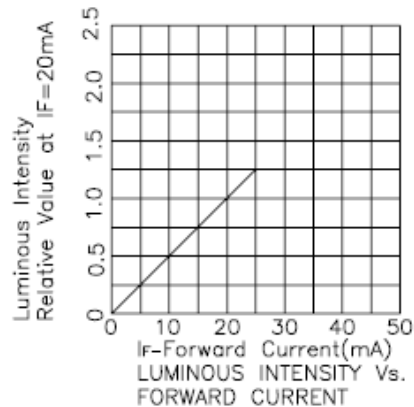
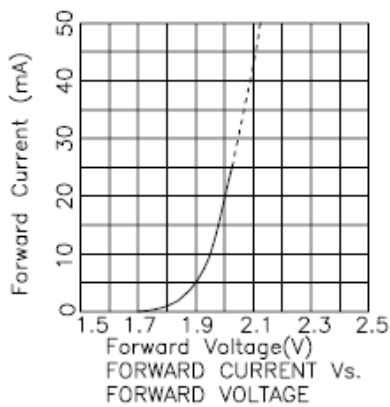
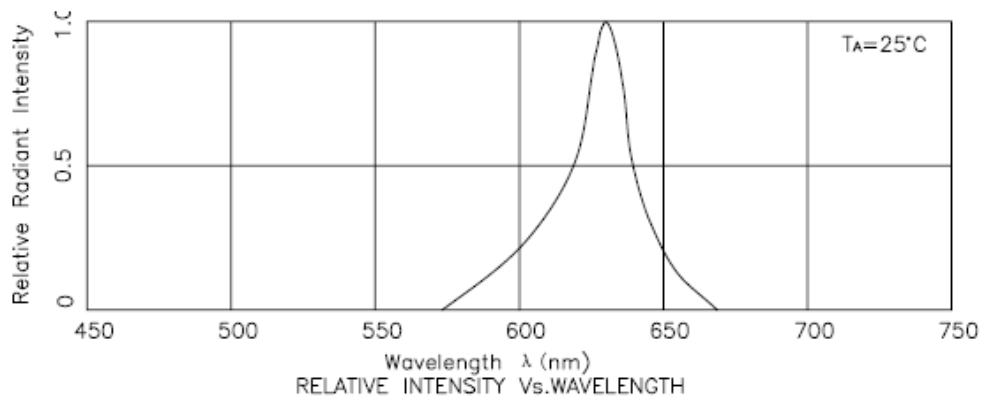
PACKAGING DIMENSIONS (mm):





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Typical Electrical/Optical Characteristics Curves





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Label Explanation

◆ VF Rank

Rank	VF(V)		Condition
	Min	Max	
B	1.8	2.0	IF=20mA
C	2.0	2.2	
D	2.2	2.4	
E	2.4	2.6	

Tolerance:±0.1V

◆ λD Rank

Rank	λD(nm)		Condition
	Min	Max	
5	617	621	IF=20mA
6	621	625	
7	625	629	

Tolerance:±1nm

◆ IV Rank

Rank	IV(mcd)		Condition
	Min	Max	
M	80	100	IF=20mA
N	100	130	
P	130	170	

Tolerance:±15%