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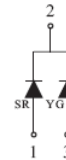
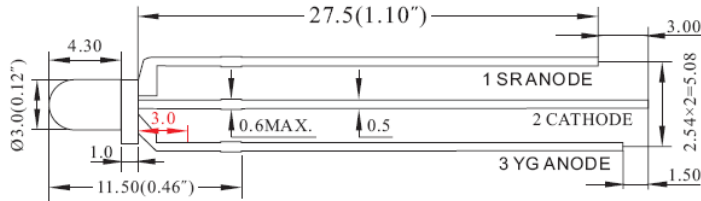
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P/N: TY-30SR1YG1TM55-50N

3mm Round Type LEDs Series

PACKAGE DIMENSION



Selection Guide

Part No.	Dice		Lens Color	($I_F=20mA$)	Viewing Angle ($2\theta_{1/2}$)
	Raw Material	Emitted Color		TYP.(mcd)	
TY-30SR1YG1TM55-50N	GaAsP	Super Red	Tiny Milky	50	55°
	GaP	Yellow Green		50	55°

Absolute Maximum Ratings($T_a=25C^\circ$)

Item	Symbol	Maximum		Unit
		SR	YG	
Power Dissipation	P_D	66	65	mW
Peak Forward Current (1/10 Duty Cycle 0.1ms Pulse Width)	I_{FP}	130	140	mA
Continuous Forward Current	I_{Fmax}	30	25	mA
Reverse Voltage	V_R	5	5	V
Capacitance	C	25	45	pF
Operating / Storage Temperature Range	T_{opr} / T_{stg}	-40°C to +85°C		
Lead Solder Temperature	T_{sol}	260°C for 3 seconds		

Electrical / Optical Characteristics($T_a=25C^\circ$)

Item	Symbol	Min.		Typ.		Max.		Unit	Condition
		SR	YG	SR	YG	SR	YG		
Forward Voltage	V_F	1.80	2.10	2.00	2.30	2.20	2.60	V	$I_F=20mA$
Peak Wavelength	λ_p	--	--	630	568	--	--	nm	$I_F=20mA$
Dominant Wavelength	λ_d	613	567	618	572	623	577	nm	$I_F=20mA$
Spectral Line Coordinates	$\Delta\lambda$	--	--	35	30	--	--	nm	$I_F=20mA$
Reverse Current	I_R	--		--		10		uA	$V_R=5V$

NOTES:

- All dimensions are in millimeter(inch); Tolerance is $\pm 0.25mm(0.01")$ especially other specified;
- Luminous intensity tolerance is $\pm 10\%$; Dominant Emission Wavelength tolerance is $\pm 5\%$;
- Specifications are subject to change without notice;
- Recommend to solder 3mm form the epoxy base.



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■ Typical Electro-Optical Characteristic Curve (CODE SR1):

FIG. 1 Forward Current Vs. Forward Voltage

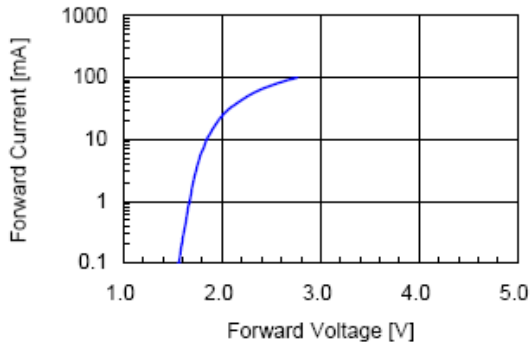


FIG. 2 Relative Intensity Vs. Forward Current

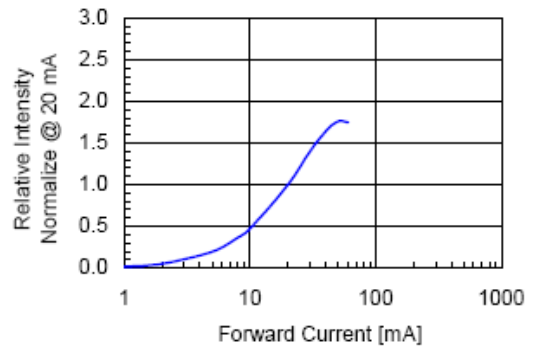


FIG. 3 Forward Voltage Vs. Temperature

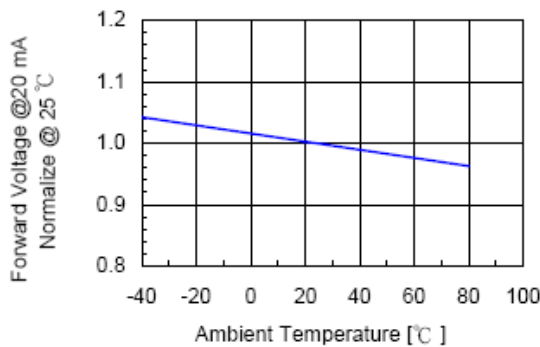


FIG. 4 Relative Intensity Vs. Temperature

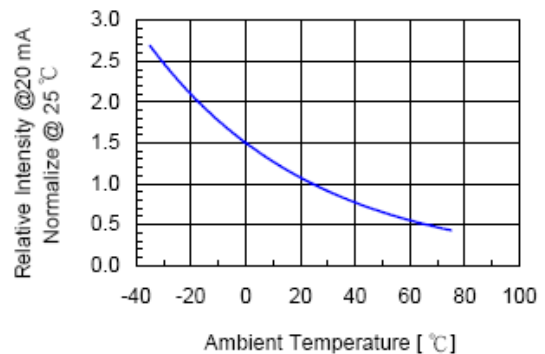
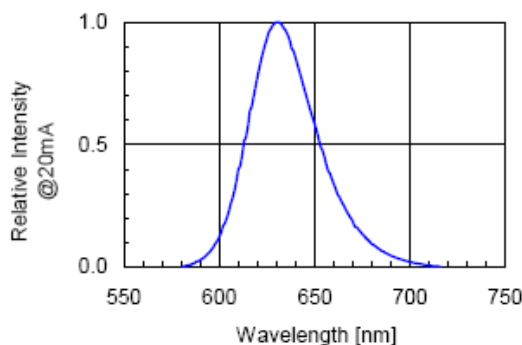


FIG. 5 Relative Intensity Vs. Wavelength





P/N: TY-30SR1YG1TM55-50N

3mm Round Type LEDs Series

■ Typical Electro-Optical Characteristic Curve (CODE YG1):

FIG. 1 Forward Current Vs. Forward Voltage

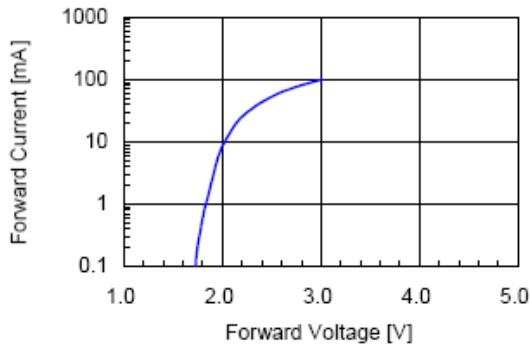


FIG. 2 Relative Intensity Vs. Forward Current

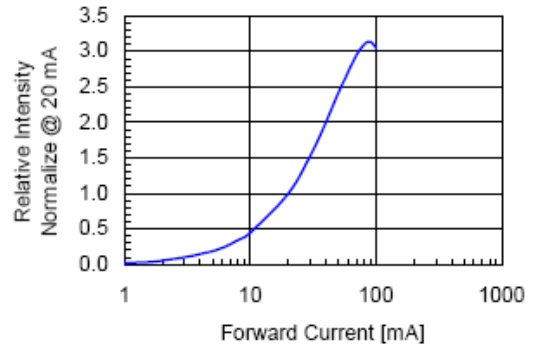


FIG. 3 Forward Voltage Vs. Temperature

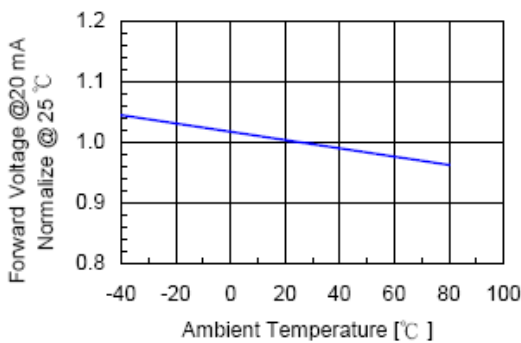


FIG. 4 Relative Intensity Vs. Temperature

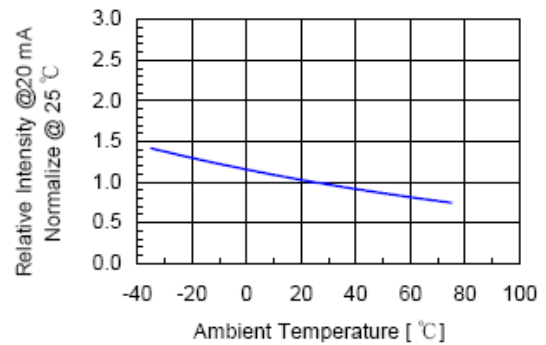


FIG. 5 Relative Intensity Vs. Wavelength

