

SLA-360 series SLA-370 series

LED, high brightness, 3.0 mm
direct mountable

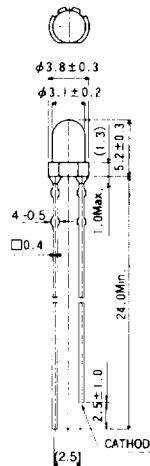
The SLA-360 and SLA-370 series LEDs are small, reflecting, high brightness single color LEDs. They have a higher luminance than other similar models due to their unique reflective structure.

Features

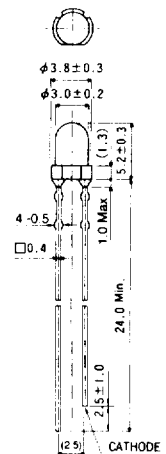
- single LED per package
- diameter of lens = 3.0 mm (SLA-370) and 3.1 mm (SLA-360)
- height as low as 5.2 mm
- mounting pitch as small as 2.5 mm
- available in ultra bright red, bright red, and green with a choice of medium or wide viewing angle lenses
- suitable for outdoor or semi-outdoor applications
- available on tape for mounting by an automatic machine

Dimensions (Units : mm)

SLA-360



SLA-370



Selection guide

Part no	SLA-360LT	SLA-360JT	SLA-360MT
Color & wavelength	Ultra bright red, 660 nm	Bright red, 660 nm	Green, 563 nm
Lens	Wide angle, 40°	Wide angle, 40°	Wide angle, 40°
Availability	semi-standard	semi-standard	semi-standard
Part no	SLA-370LT	SLA-370JT	SLA-370MT
Color & wavelength	Ultra bright red, 660 nm	Bright red, 660 nm	Green, 563 nm
Lens	Medium angle, 25°	Medium angle, 25°	Medium angle, 25°
Availability	semi-standard	semi-standard	semi-standard

Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

Parameter		Symbol	Limits	Unit
Power dissipation	MT type	P_D	75	mW
	LT and JT		100	
Forward current	MT type	I_F	25	mA
	LT and JT		50	
Peak forward current	MT type	I_{FP}	60	mA
	LT and JT		75	
Reverse voltage		V_R	4	V
Operating temperature		T_{opr}	-25 ~ +85	$^\circ\text{C}$
Storage temperature		T_{stg}	-30 ~ +100	$^\circ\text{C}$

Electro-optical characteristics ($T_a = 25^\circ\text{C}$)

Parameter		Symbol	Min	Typical	Max	Unit	Conditions
Forward voltage	Red	V_F		1.75	2.5	V	$I_F = 20\text{ mA}$
	Green			2.3	3.0		
Reverse current	Red	I_R			100	μA	$V_R = 4\text{ V}$
	Green				10		
Peak wavelength		λ_p		Red 660 Green 563		nm	$I_F = 20\text{ mA}$
Spectral half-width	Red	$\Delta\lambda$		25		nm	$I_F = 20\text{ mA}$
	Green			40			
Emission power half angle	SLA-360	$2\theta_{1/2}$		40		deg	
	SLA-370			25			

Luminous intensity

Part no.	Color	λ_p	Min	Typical	Max	Unit	Conditions
SLA-360JT	Red	660	90	220		mcd	For $I_F = 20\text{ mA}$
SLA-360LT			30	68		mcd	
SLA-370JT			200	470		mcd	
SLA-370LT			42	100		mcd	
SLA-360MT	Green	563	42	100		mcd	
SLA-370MT			42	100		mcd	

Electrical characteristic curves 1 (Red)

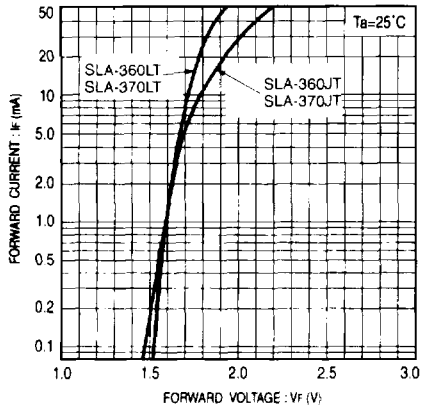


Figure 1

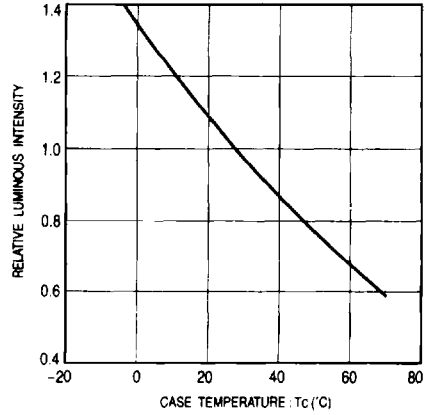


Figure 2

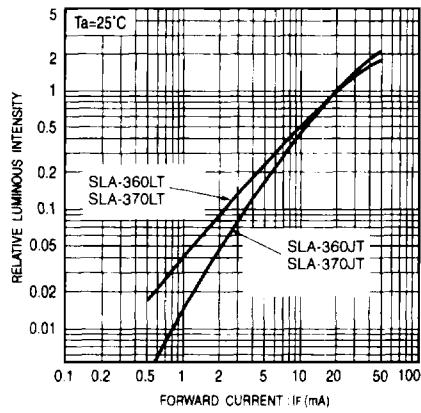


Figure 3

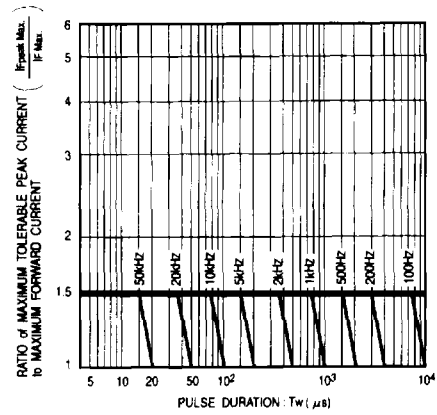


Figure 4

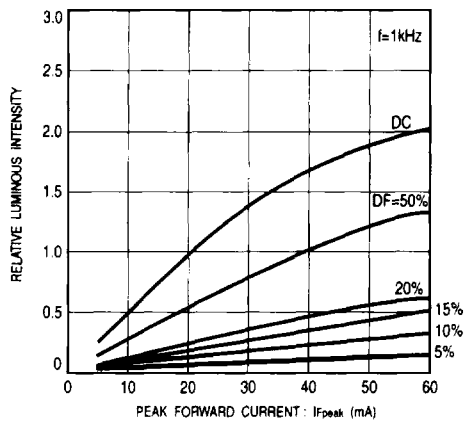


Figure 5

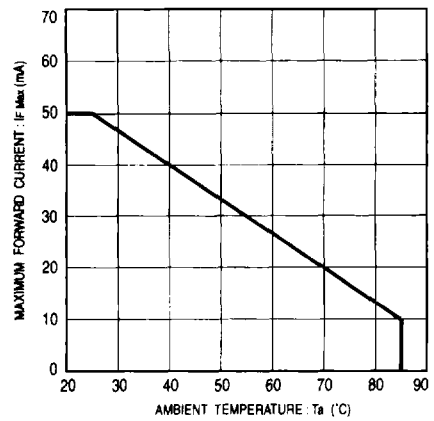


Figure 6

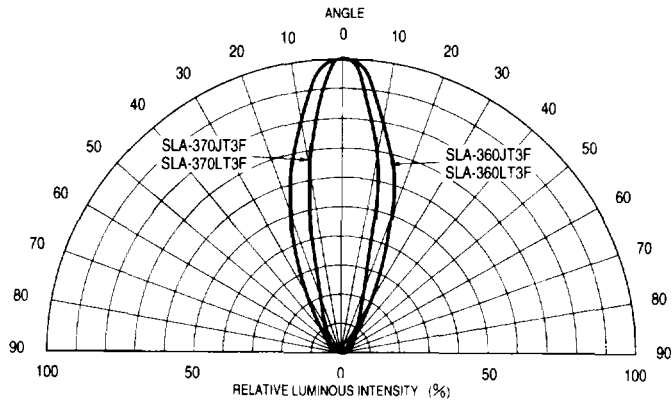


Figure 7 Directional pattern (red)

Electrical characteristic curves 4 (Green)

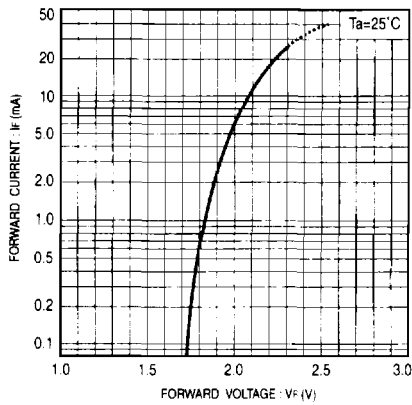


Figure 8

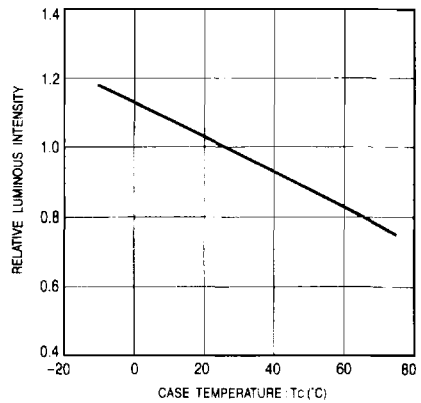


Figure 9

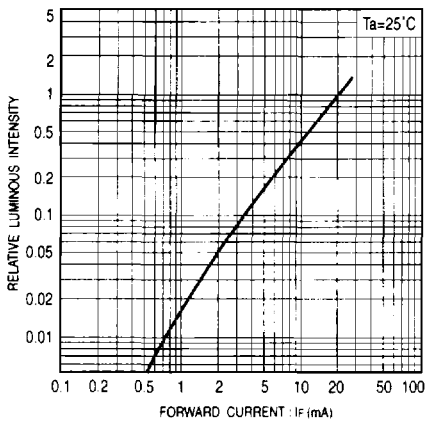


Figure 10

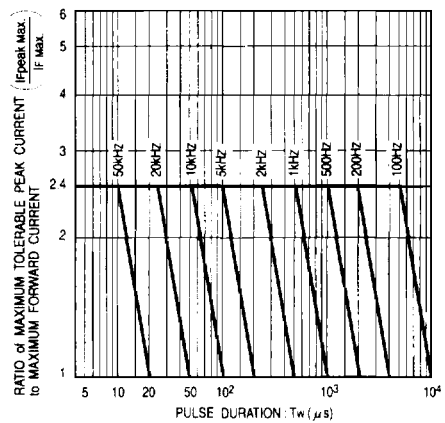


Figure 11

SLA-360 and SLA-370 series LED lamps, leaded, SLA series

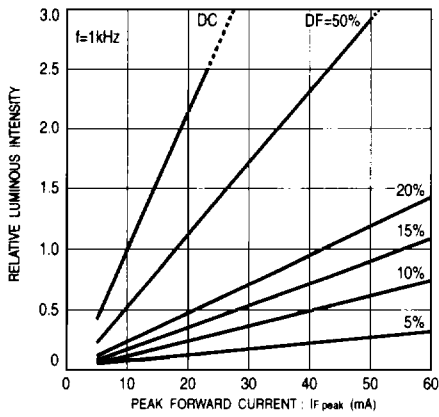


Figure 12

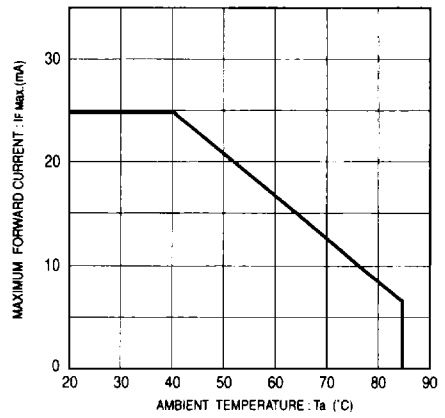


Figure 13

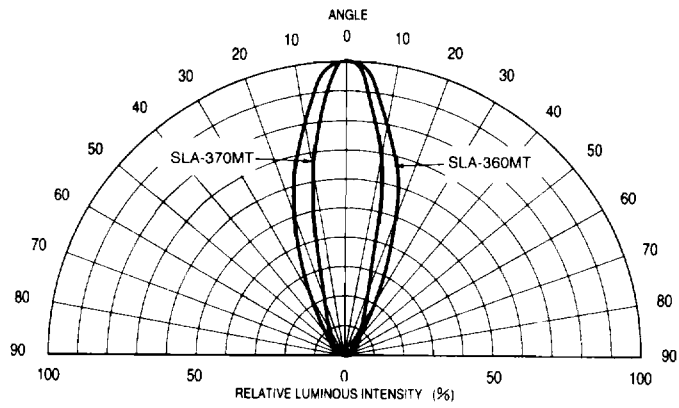


Figure 14 Directional pattern (green)