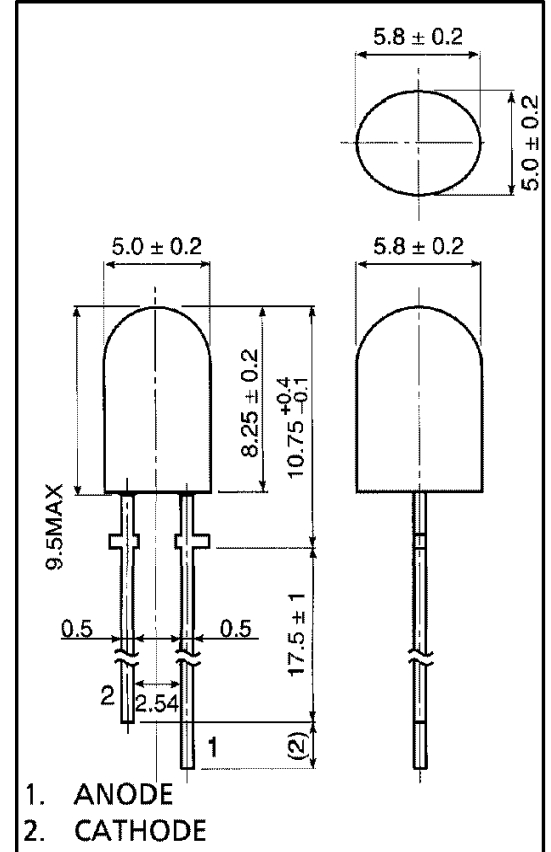


### Features

Elliptical Package  
 Colored Transparent Lens  
 InGaAlP Technology  
 All Plastic Mold Type  
 High Intensity Light Emission  
 Excellent Low Current Light Output

### Applications

Backlight  
 Full Color Signs  
 Outdoor Message Signs



### Series Line-Up

Part Number	Color	Material
TLGE27C	Ultra Bright Yellow Green	InGaAlP
TLOE27C	Ultra Bright Orange	InGaAlP
TLRE27C	Ultra Bright Red	InGaAlP
TLRME27C	Ultra Red	InGaAlP
TLSE27C	Ultra Bright High Efficiency Red	InGaAlP
TLYE27C	Ultra Bright Yellow	InGaAlP

### Maximum Ratings (Ta=25°C)

Part Number	Forward Current IF	Reverse Voltage VR	Power Dissipation Pd	Operating Temperature Topr	Storage Temperature Tstg
TLGE27C	50	4	120.00	-40 ~ 100	-40 ~ 120
TLOE27C	50	4	120.00	-40 ~ 100	-40 ~ 120
TLRE27C	50	4	120.00	-40 ~ 100	-40 ~ 120
TLRME27C	50	4	120.00	-40 ~ 100	-40 ~ 120
TLSE27C	50	4	120.00	-40 ~ 100	-40 ~ 120
TLYE27C	50	4	120.00	-40 ~ 100	-40 ~ 120
Unit	mA	V	mW	°C	°C

**Company Headquarters**  
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 Latham, New York 12110  
 Toll Free: 800.984.5337  
 Fax: 518.785.4725



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**West Coast Sales Office**  
 950 South Coast Drive, Suite 265  
 Costa Mesa, California 92626  
 Toll Free: 800.984.5337  
 Fax: 714.850.9314

### Electrical and Optical Characteristics (Ta=25°C)

Part Number	PWL nm $\lambda_P$	Material	View Angle $2\theta_{1/2}$	Luminous Intensity $I_v$				Forward Voltage $V_F$				Rev Current $I_R$	
				min.	typ.	max.	IF@	min.	typ.	max.	IF@	max.	VR@
TLGE27C	574	InGaAIP	30° x 50°	85.00	250.00	–	20mA	–	2.00	2.40	20mA	50	4V
TLOE27C	612	InGaAIP	30° x 50°	272.00	800.00	–	20mA	–	2.00	2.40	20mA	50	4V
TLRE27C	644	InGaAIP	30° x 50°	85.00	300.00	–	20mA	–	1.90	2.40	20mA	50	4V
TLRME27C	636	InGaAIP	30° x 50°	153.00	400.00	–	20mA	–	1.90	2.40	20mA	50	4V
TLSE27C	623	InGaAIP	30° x 50°	272.00	750.00	–	20mA	–	1.90	2.40	20mA	50	4V
TLYE27C	590	InGaAIP	30° x 50°	272.00	650.00	–	20mA	–	2.00	2.40	20mA	50	4V
–	nm	–	deg	mcd				–	V		–	$\mu A$	–

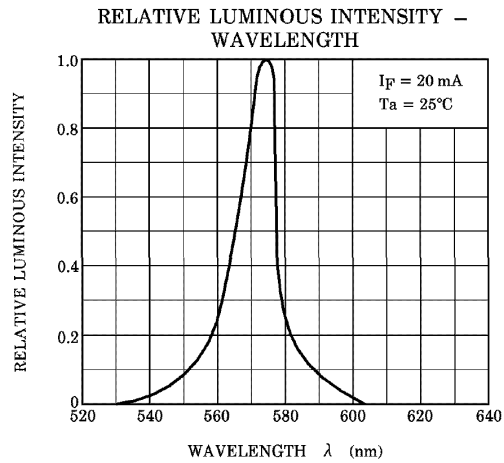
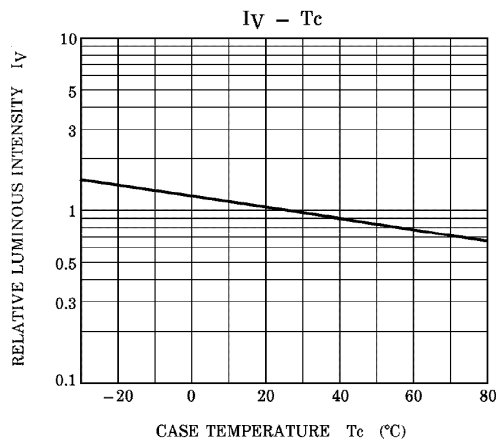
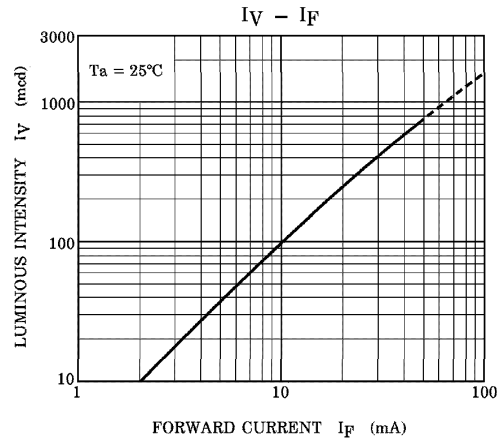
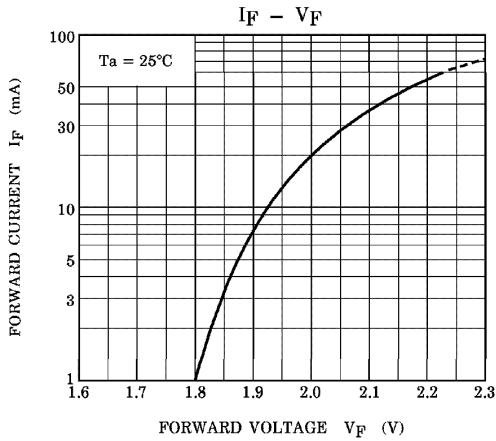
### Precautions

- Soldering temperature: 260°C max, soldering time: 3 s max (soldering portion of lead: up to 2 mm from the body of the device).
- If the lead is formed, the lead should be formed up to 5 mm from the body of the device without forming stress to the resin. Soldering should be performed after lead forming.
- This visible LED lamp also emits some IR light. If a photodetector is located near the LED lamp, please ensure that it will not be affected by this IR light.

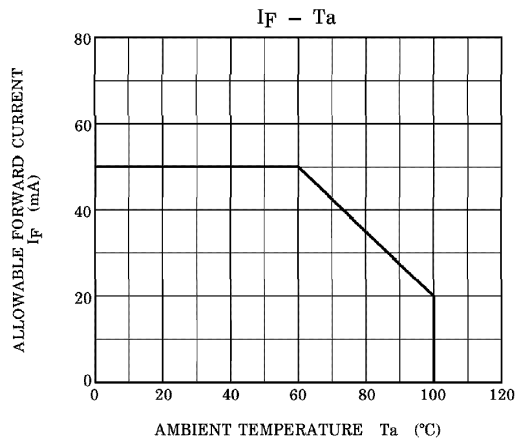
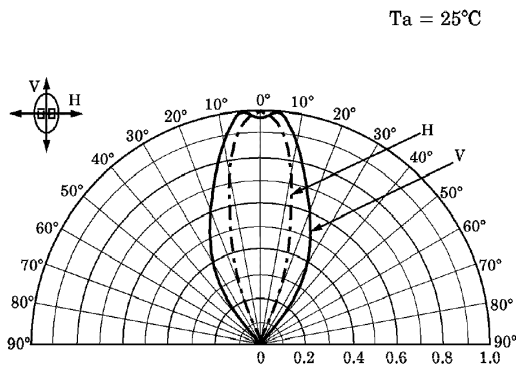
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- In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent TOSHIBA products specifications. Also, please keep in mind the precautions and conditions set forth in the "Handling Guide for Semiconductor Devices," or "TOSHIBA Semiconductor Reliability Handbook" etc..
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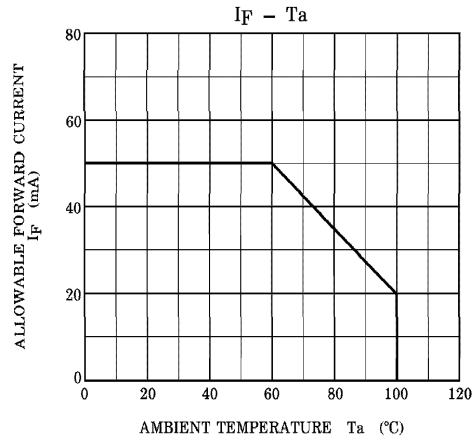
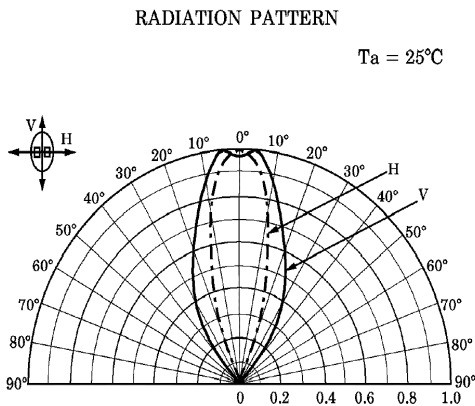
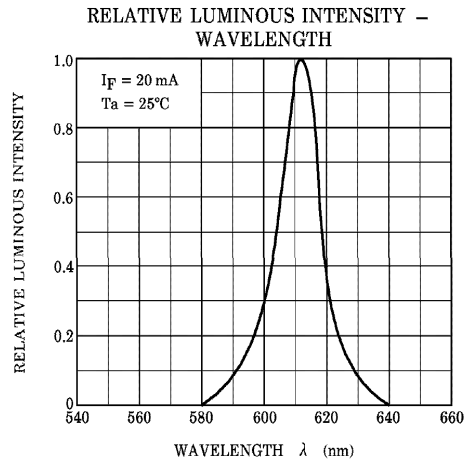
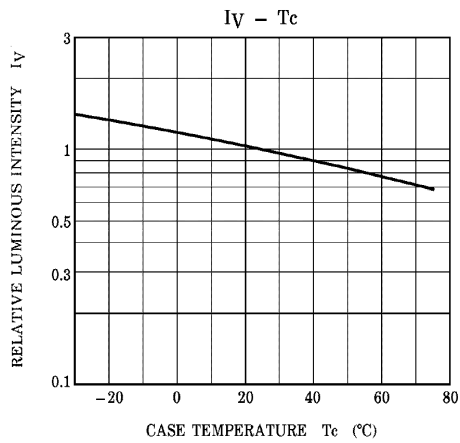
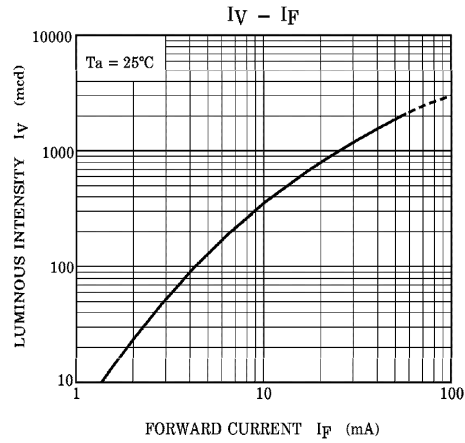
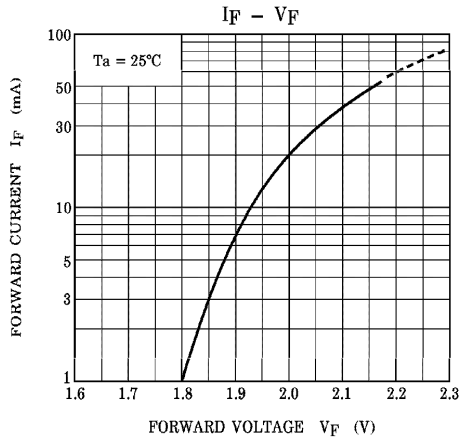
### TLGE27C Graphs



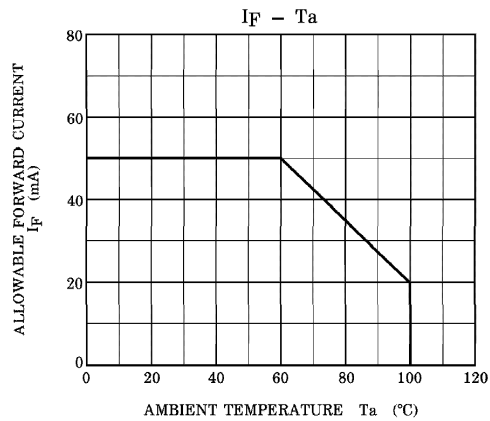
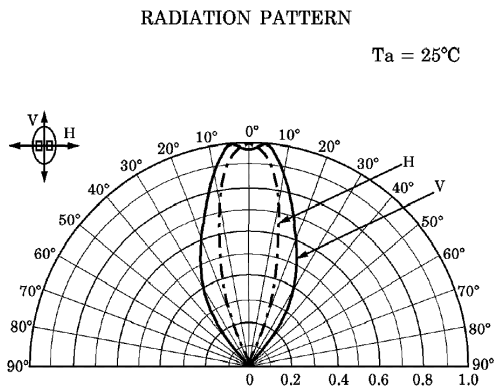
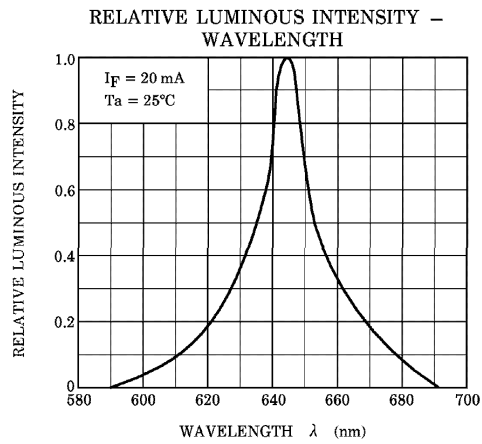
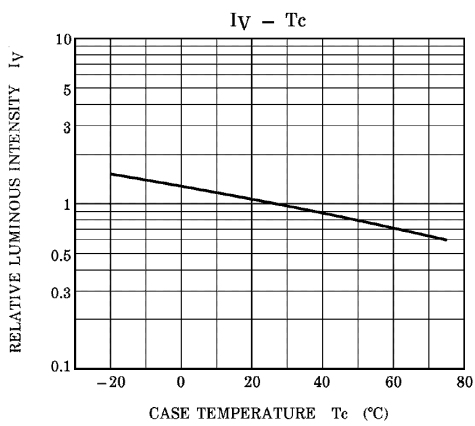
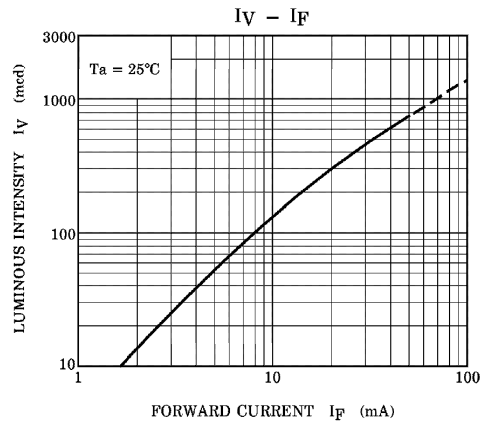
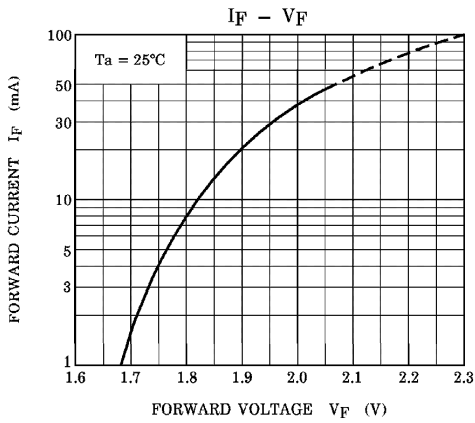
### RADIATION PATTERN



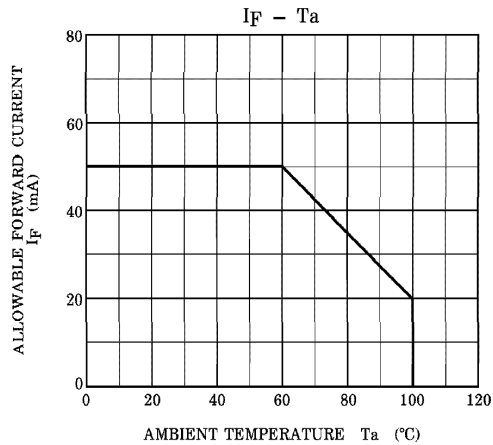
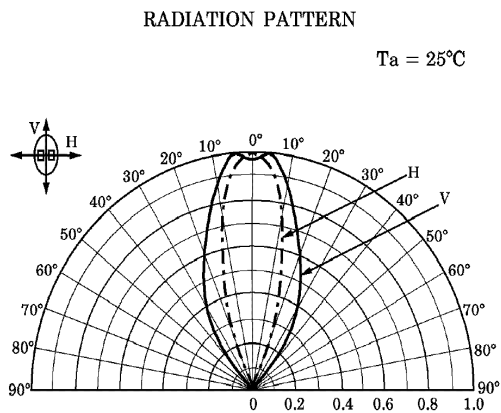
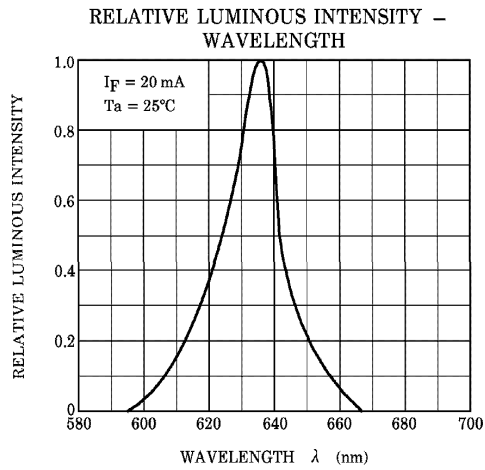
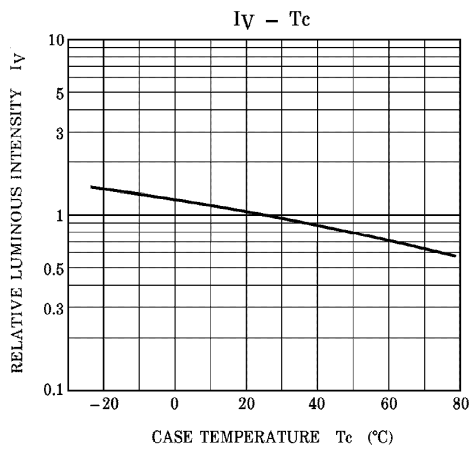
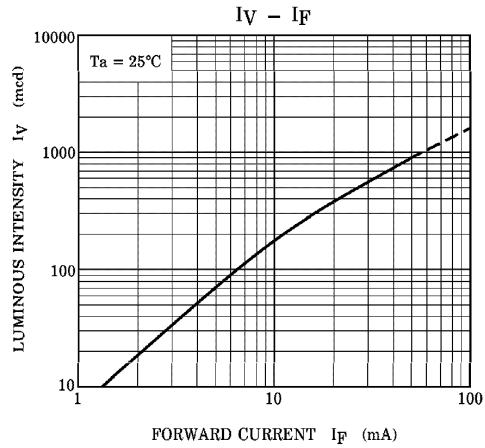
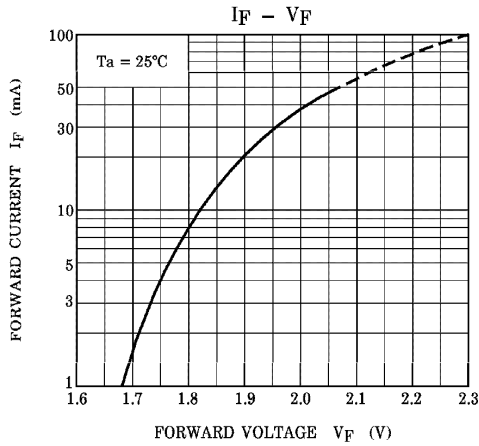
### TLOE27C Graphs



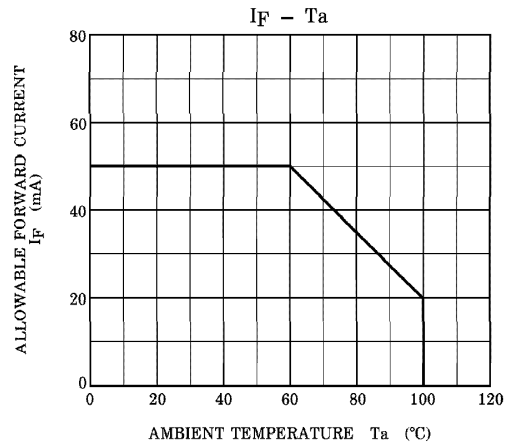
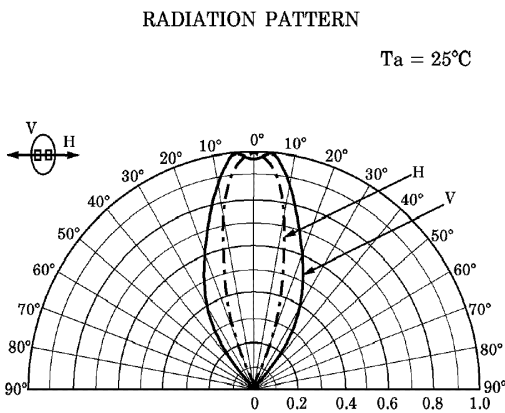
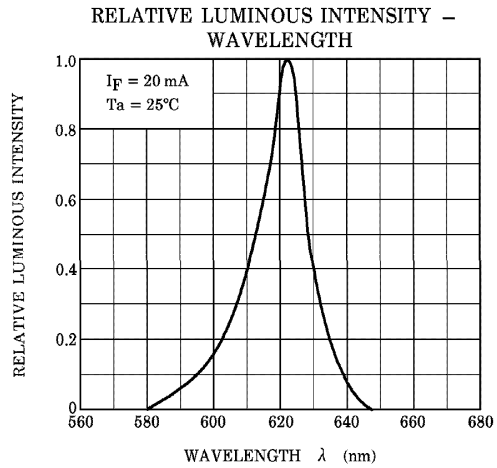
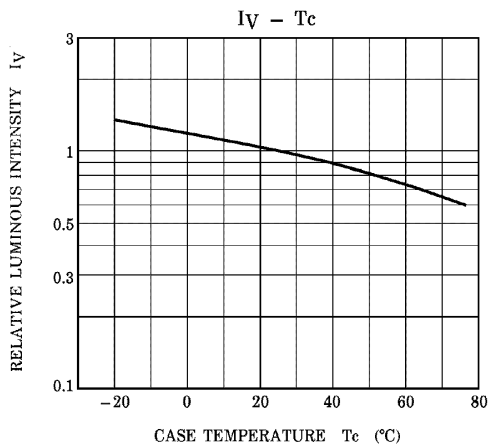
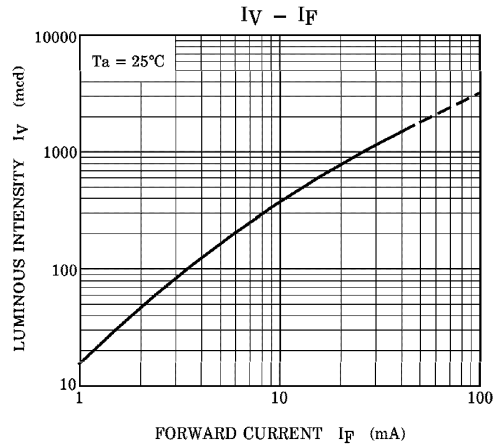
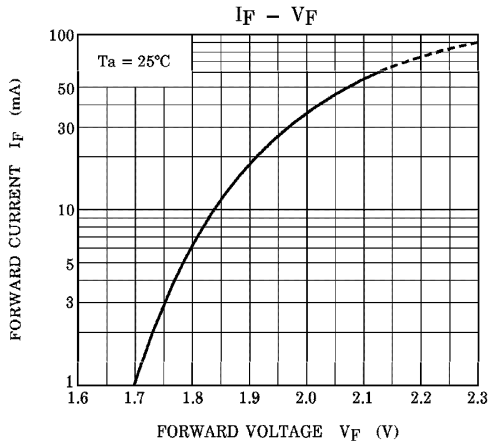
### TLRE27C Graphs



### TLRME27C Graphs



### TLSE27C Graphs



### TLYE27C Graphs

