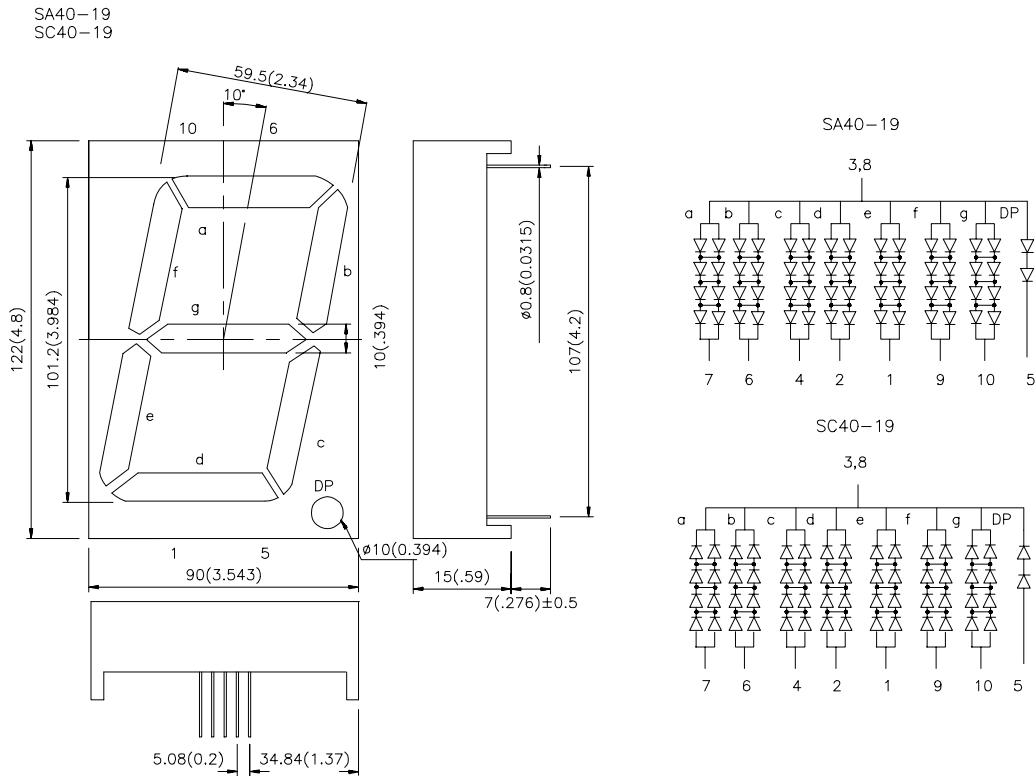


Notes:

1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
2. Specifications are subject to change without notice.

Package Dimensions & Internal Circuit Diagram



Notes:

1. All dimensions are in millimeters (inches). Tolerance is $\pm 0.25(0.01")$ unless otherwise noted.
2. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Iv (ucd) @ 10 mA		Description
		Min.	Typ.	
SA40-18EWA SA40-19EWA	HIGH EFFICIENCY RED (GaAsP/GaP)	18000	44000	Common Anode, Rt. Hand Decimal
SC40-18EWA SC40-19EWA				Common Cathode, Rt. Hand Decimal
SA40-18GWA SA40-19GWA	GREEN (GaP)	18000	60000	Common Anode, Rt. Hand Decimal
SC40-18GWA SC40-19GWA				Common Cathode, Rt. Hand Decimal
SA40-18YWA SA40-19YWA	YELLOW (GaAsP/GaP)	12000	26000	Common Anode, Rt. Hand Decimal
SC40-18YWA SC40-19YWA				Common Cathode, Rt. Hand Decimal
SA40-18SRWA SA40-19SRWA	SUPER BRIGHT RED (GaAlAs)	26000	105000	Common Anode, Rt. Hand Decimal
SC40-18SRWA SC40-19SRWA				Common Cathode, Rt. Hand Decimal

Electrical / Optical Characteristics at T_A=25°C

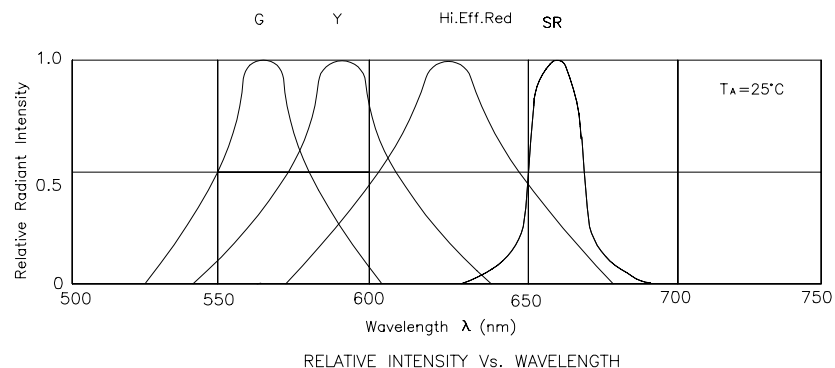
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λ_{peak}	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red	627 565 590 660		nm	IF=20mA
λ_D	Dominate Wavelength	High Efficiency Red Green Yellow Super Bright Red	625 568 588 640		nm	IF=20mA
$\Delta\lambda_{1/2}$	Spectral Line Halfwidth	High Efficiency Red Green Yellow Super Bright Red	45 30 35 20		nm	IF=20mA
C	Capacitance	High Efficiency Red Green Yellow Super Bright Red	15 15 20 45		pF	V _F =0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Green Yellow Super Bright Red	2.0 2.2 2.1 1.85	2.5 2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All		10	uA	VR = 5V

Absolute Maximum Ratings at T_A=25°C

Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	105	105	105	100	mW
DC Forward Current	30	25	30	30	mA
Peak Forward Current [1]	160	140	140	155	mA
Reverse Voltage	5	5	5	5	V
Operation/Storage Temperature	-40°C To +85°C				
Lead Solder Temperature [2]	260°C For 5 Seconds				

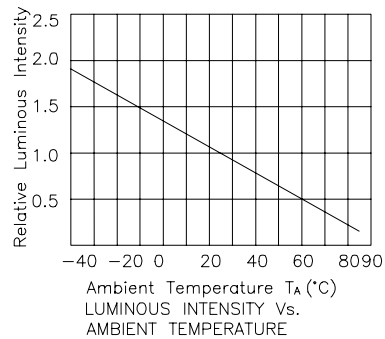
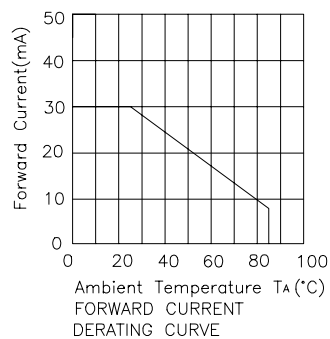
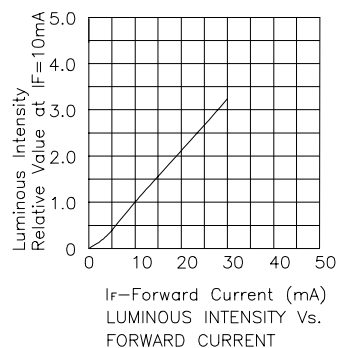
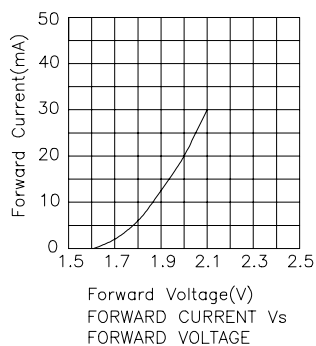
Notes:

- 1/10 Duty Cycle, 0.1ms Pulse Width.
- 4mm below package base.

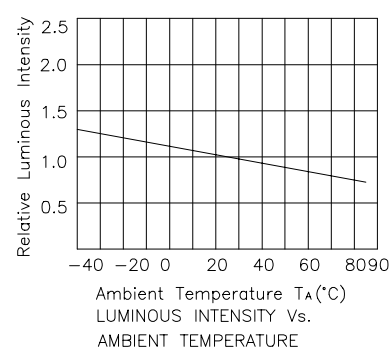
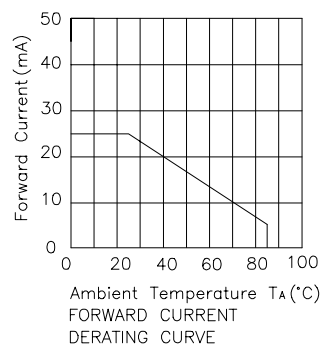
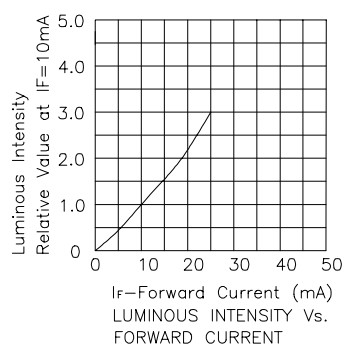
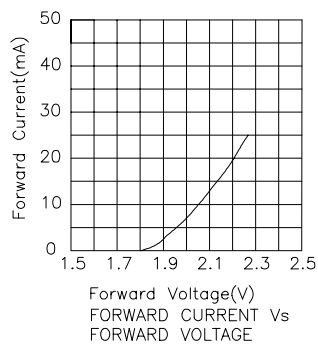


Kingbright

High Efficiency Red

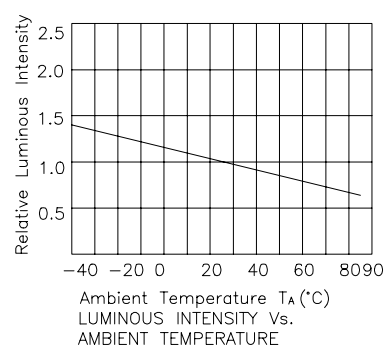
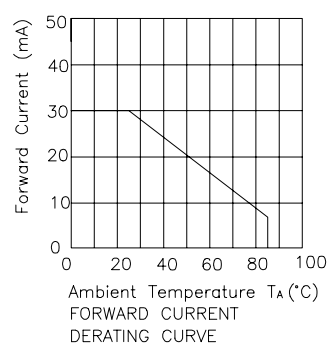
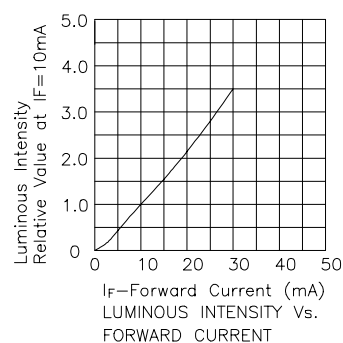
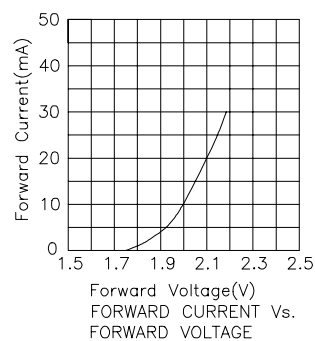


Green



Kingbright

Yellow



Super Bright Red

