

TOSHIBA

Toshiba S4E38XX Series LEDs

S4E38XX

Features

5mm Package
InGaAlP Technology
Water Clear Lens
All Plastic Mold Type
High Power Luminous Intensity

Applications

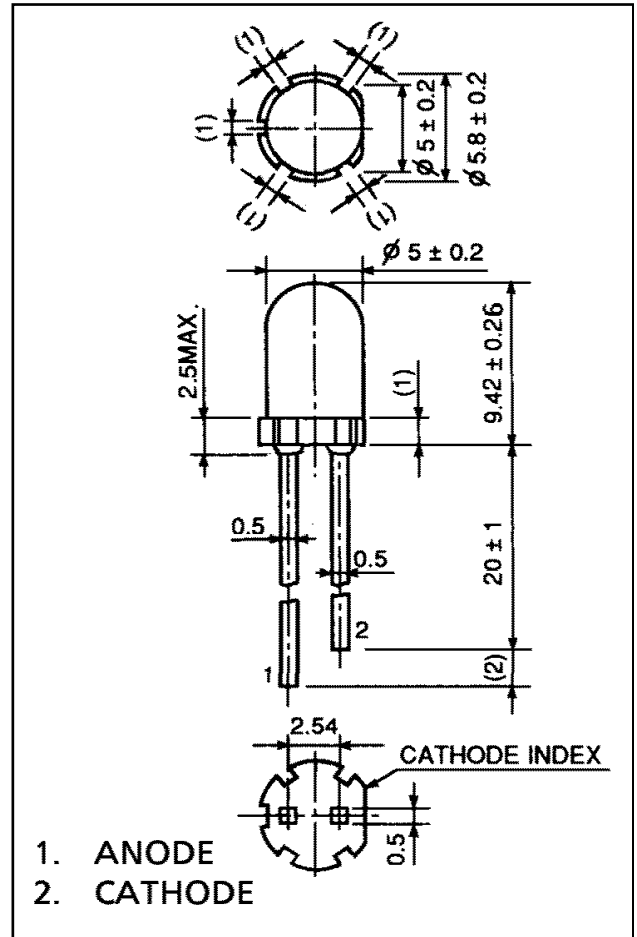
Traffic
VMS
Roadway Hazard Signs

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I _F	50	mA
Reverse Voltage	V _R	4.00	V
Power Dissipation	P _D	125.00	mW
Operating Temperature	T _{opr}	-30 ~ 85	°C
Storage Temperature	T _{stg}	-40 ~ 120	°C
Soldering Temperature	T _{sol}	260	°C
Soldering Time	-	for 3 sec. max	-

Opto-Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V _F	I _F =20mA	-	2.10	2.50	V
Reverse Current	I _R	V _R =4V	-	-	50	μA
Luminous Intensity	I _v	I _F =20mA	2200.00	3500.00	-	mcd
Viewing Angle	2θ ^{1/2}	-	-	17°	-	deg.
Peak Wavelength	λ _p	I _F =20mA	-	590	-	nm
Dominant Wavelength	λ _d	I _F =20mA	-	587	-	nm
Spectral Line Half Width	Δλ	I _F =20mA	-	13	-	nm



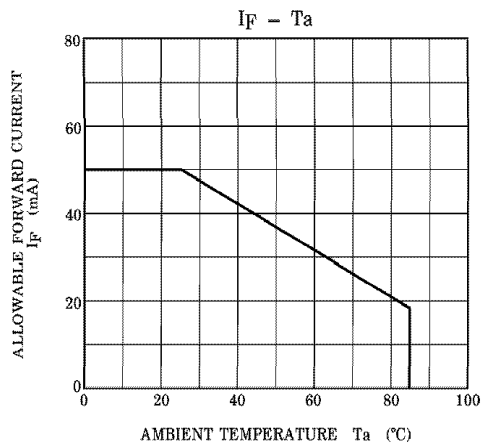
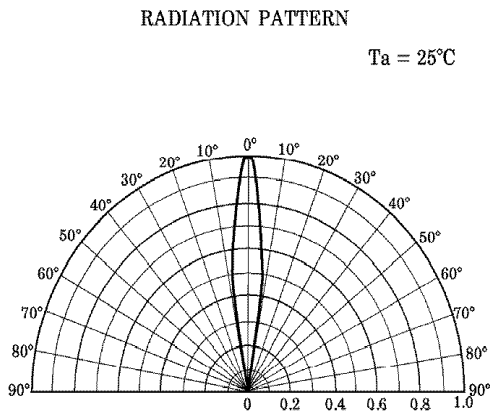
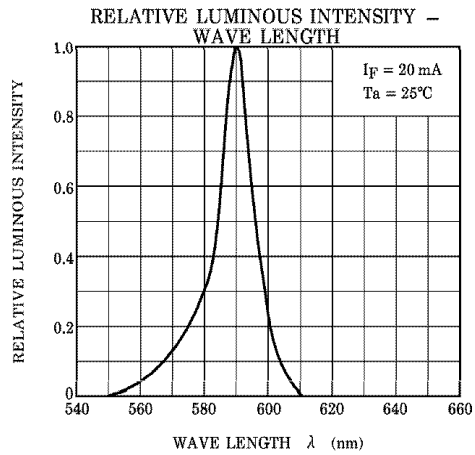
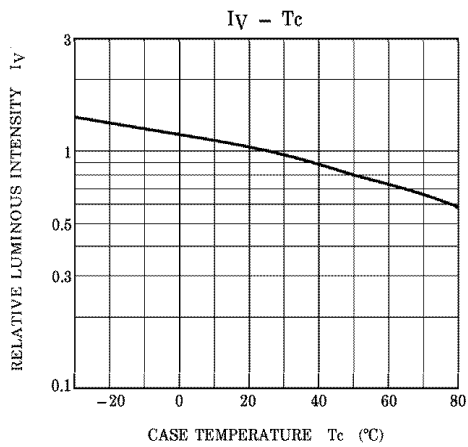
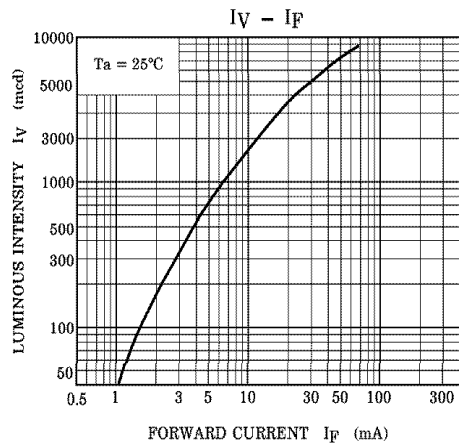
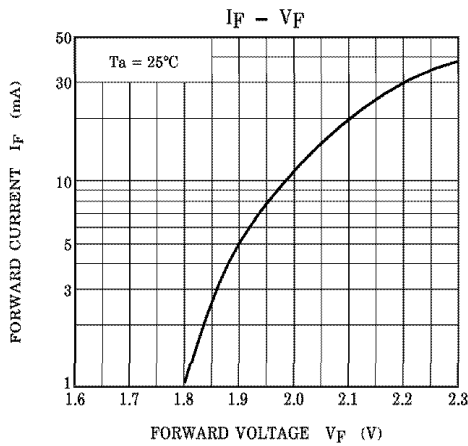
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S4E38XX Graphs





Toshiba S4E38XX Series LEDs

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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..
- The TOSHIBA products listed in this document are intended for usage in general electronics applications (computer, personal equipment, office equipment, measuring equipment, industrial robotics, domestic appliances, etc.). These TOSHIBA products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury ("Unintended Usage"). Unintended Usage include atomic energy control instruments, airplane or spaceship instruments, transportation instruments, traffic signal instruments, combustion control instruments, medical instruments, all types of safety devices, etc.. Unintended Usage of TOSHIBA products listed in this document shall be made at the customer's own risk.
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