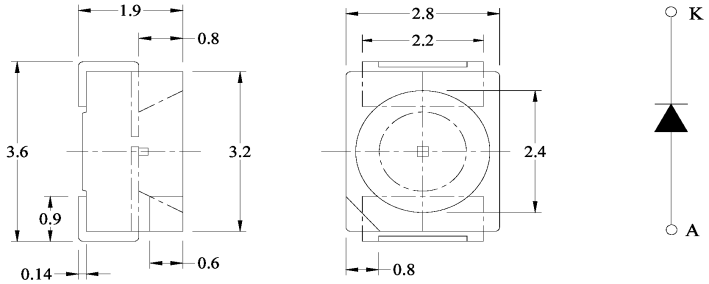
Marktech Optoelectronics

1210 SMT LED

MTSM735KA−UR

Features

Choice of water clear or color clear lens
Excellent on/off contrasts
Other colors/materials available
Solid state reliability
Wide viewing angle
Lead Free



Notes:

1. ALL DIMENSIONS ARE IN mm.
2. TOLERANCE IS ±0.25mm UNLESS OTHERWISE NOTED.

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I_F	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	72.00	mW
Operating Temperature	T_{opr}	−25 ~ +85	°C
Storage Temperature	T_{stg}	−40 ~ +100	°C
Soldering Temperature	T_{sol}	260	°C
Soldering Time	−	for 5 sec. max	−

Opto−Electrical Characteristics (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	V_F	I_F=20mA	−	1.90	2.40	V
Reverse Current	I_R	V_R=4V	−	−	100	μA
Luminous Intensity	I_V	I_F=20mA	75.00	130.00	−	mcd
Viewing Angle	$2\theta^{1/2}$	−	−	120°	−	deg.
Peak Wavelength	λp	I_F=20mA	−	660	−	nm
Dominant Wavelength	λd	I_F=20mA	−	643	−	nm
Spectral Line Half Width	Δλ	I_F=20mA	−	20	−	nm

Description

Part No.	LED Chip		LEADFRAME	Lens Color
	Material	Emitting Color	Material	Water Clear
MTSM735KA-UR	AlGaAs/AlGaAs	Super Red	PPA + Iron covered with Silver	

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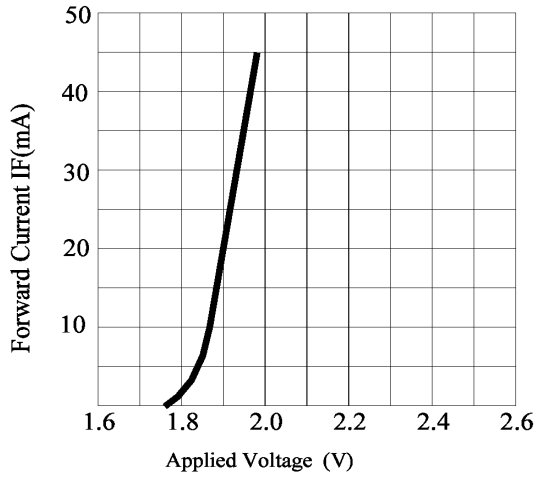
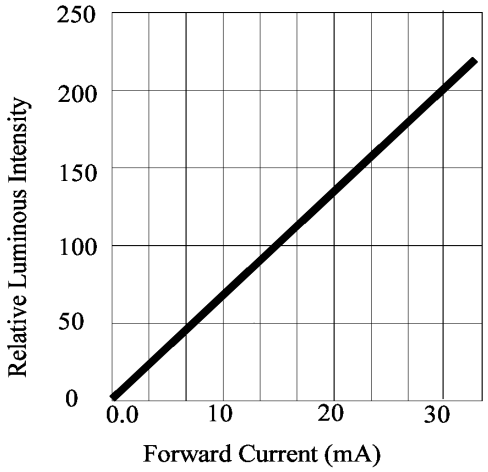
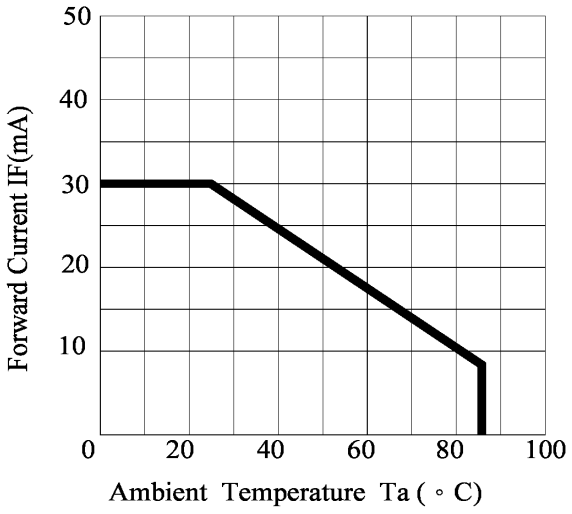
MTSM735KA−UR Graphs



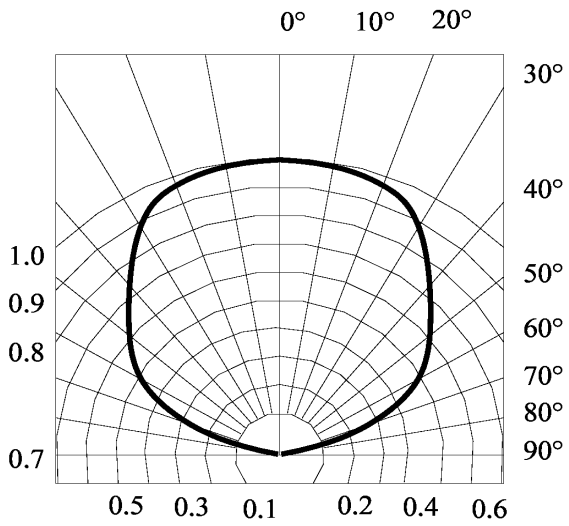
Forward Current VS. Applied Voltage



Forward Current VS. Luminous Intensity



Ambient Temperature vs. Forward Current



Radiation Diagram

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