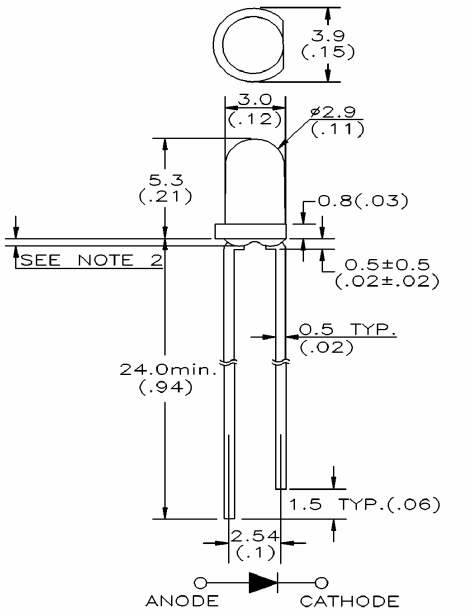
3mm 25º Ultrabright Red LED

MT7183A−UR

Features

High Intensity
IC Compatible
Low Current Requirements
Red Diffused Lens
Reliable and Rugged



Notes：
1. All dimensions are in millimeters (inches).
2. Protruded resin under flange is 1.0mm (.04″) max.
3. Tolerance is ±0.25mm (0.01″) unless otherwise noted.

Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Max.	Unit
Forward Current	I_F	30	mA
Reverse Voltage	V_R	4	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	90.00	150.00	−	mcd
Viewing Angle	$2\theta^{1/2}$	−	−	25°	−	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

Specification is subject to change without notice.

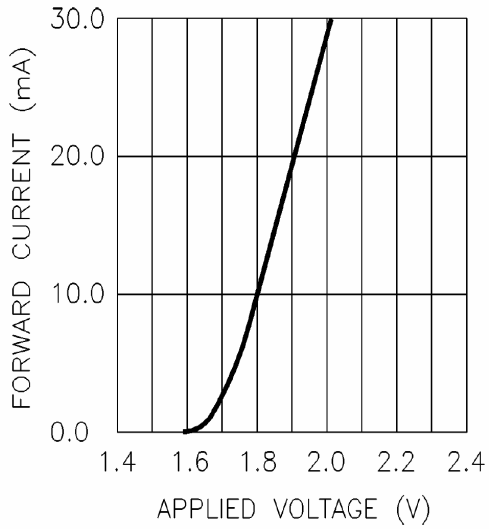
Company Headquarters
3 Northway Lane North
Latham, New York 12110
Toll Free: 800.984.5337
Fax: 518.785.4725

Web: www.marktechopto.com | Email: info@marktechopto.com

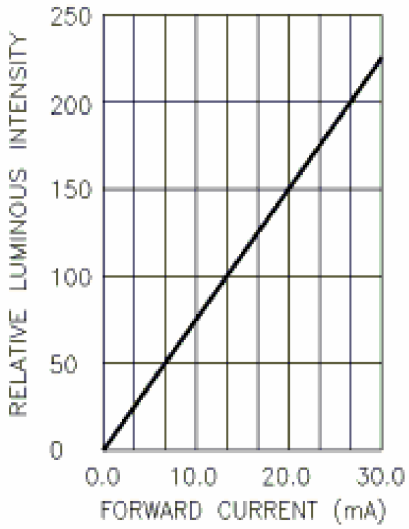
West Coast Sales Office
950 South Coast Drive, Suite 265
Costa Mesa, California 92626
Toll Free: 800.984.5337
Fax: 714.850.9314

MT7183A−UR Graphs

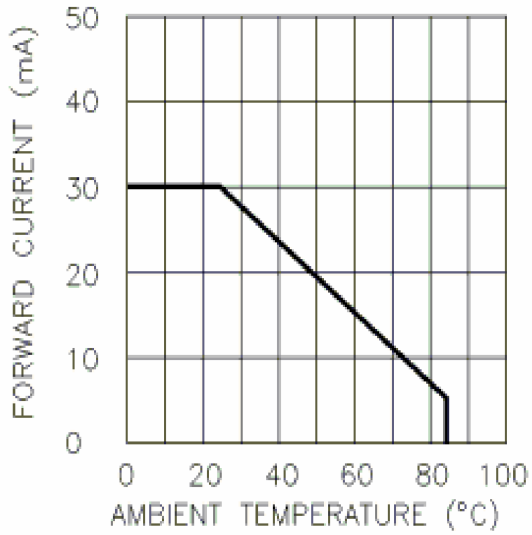
Typical Electrical / Optical Characteristics Curves：



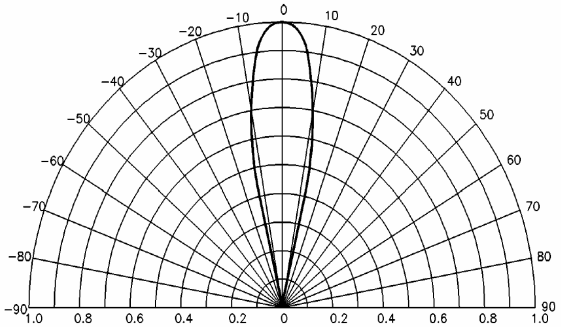
Forward Current vs. Forward Voltage



Forward Current vs. Relative Luminous Intensity



Ambient Temperature vs. Forward Current



Radiation Diagram

Company Headquarters
3 Northway Lane North
Latham, New York 12110
Toll Free: 800.984.5337
Fax: 518.785.4725

Web: www.marktechopto.com | Email: info@marktechopto.com

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