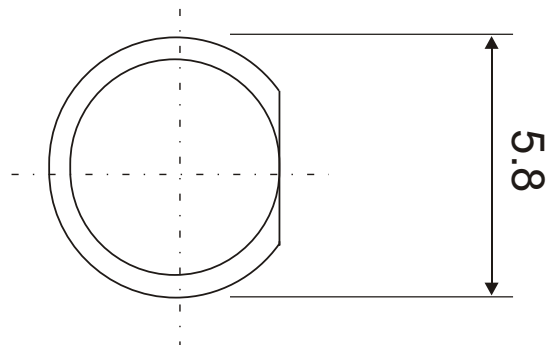
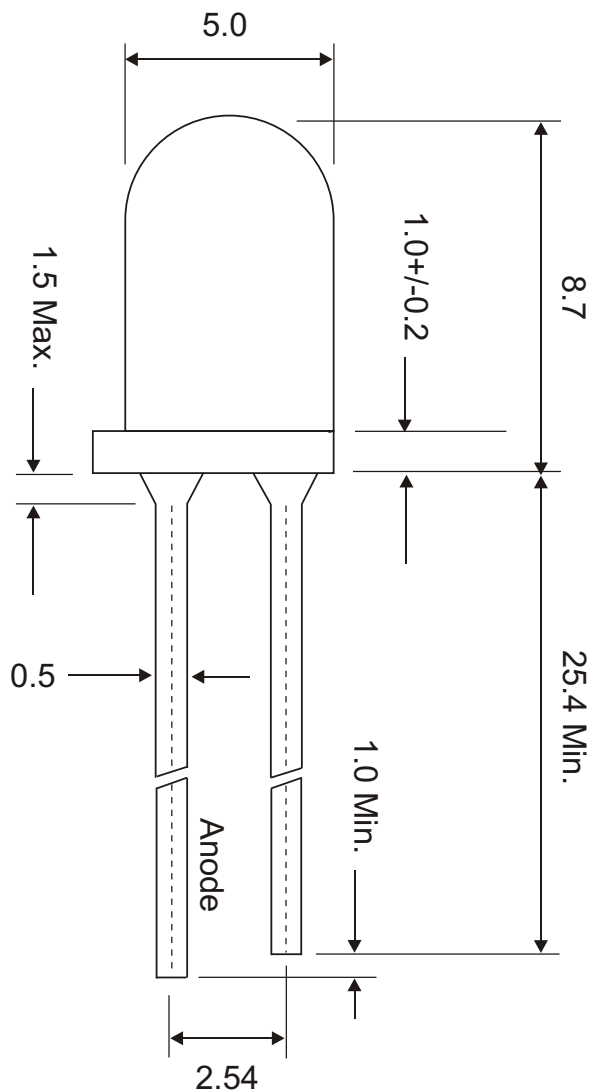


■ PACKAGE DIMENSIONS :

Standard 5mm Round
Super Red Series



Part Number	Lens Color
MT-333SRC	Water Clear
MT-333SRT	Red Transparent
MT-333SRD	Red Diffused
MT-333SRW	White Diffused

Chips Material	Emitting Color	Lens Shape
GaAlAs	Red	5mm Round

Notes :

- Lead spacing is measured where the leads emerge from the package
- Protruded resin under flange 1.5mm(0.059") Max.
- All dimensions are in millimeters, Tolerance is 0.25mm unless otherwise noted.



■ Electro-Optical Characteristics (Ta=25°C)

Parameter		Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	C	I _v	350	450		mcd	I _F = 20 mA
	T						
	D		40	50			
	W						
Viewing Angle *	C	2θ 1/2		15		deg.	
	T						
	D			55			
	W						
Peak Emission Wavelength		λ _P		650		nm	
Spectrum Radiation Bandwidth		Δλ		23		nm	
Forwards Voltage		V _F		1.9	2.4	V	

* θ1/2 is the off-axis angle where the luminous intensity is 1/2 the peak intensity.

■ Absolute Maximum Ratings (Ta=25°C)

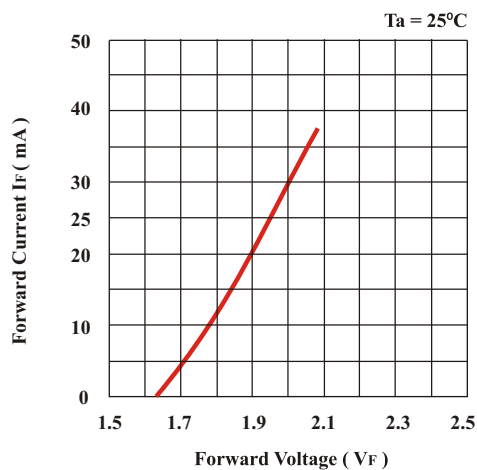
Characteristic	Symbol	Ratings	Unit
Power Dissipation	P _D	100	mW
Forward Current	I _F	30	mA
Peak Forward Current #	I _{PF}	100	mA
Reverse Voltage	V _R	5	V
Reverse Current	I _R	50	μA
Operation Temperature Range	T _{opr}	-30 ~ + 80	°C
Storage Temperature Range	T _{stg}	-40 ~ + 100	°C
Soldering Temperature Range *	T _{sol}	250°C for 3 seconds (max.)	

Duty ratio = 1/16 , Pulse width = 0.1ms

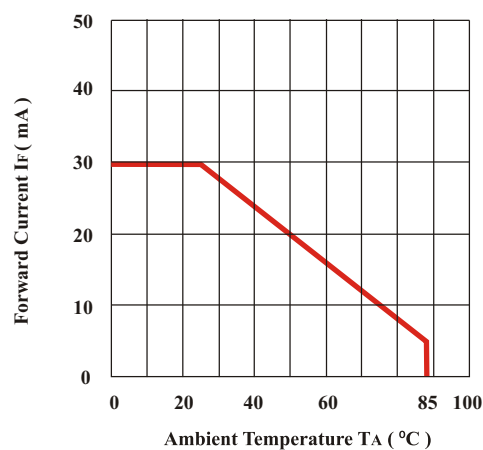
* Lead soldering temperature range (1.6mm from Body)

Typical Electro-Optical Characteristics Curves

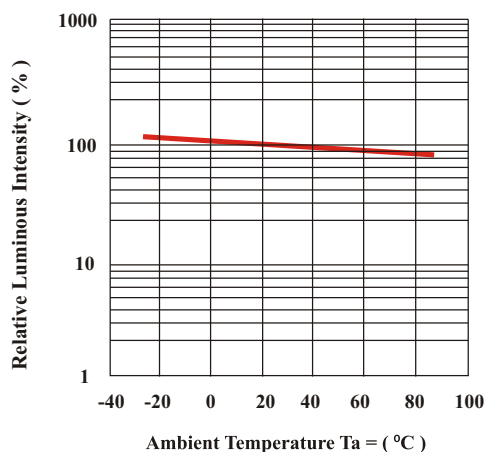
Forward Current vs Forward Voltage



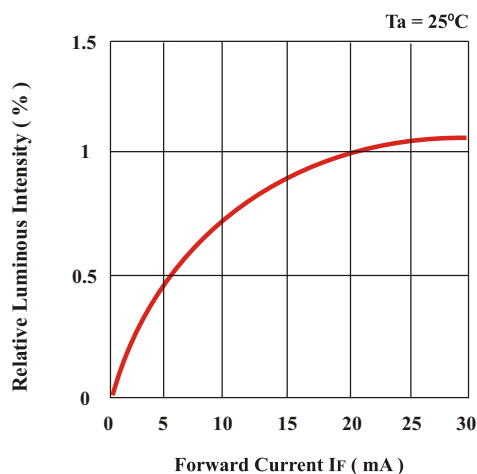
Forward Current Derating Curve



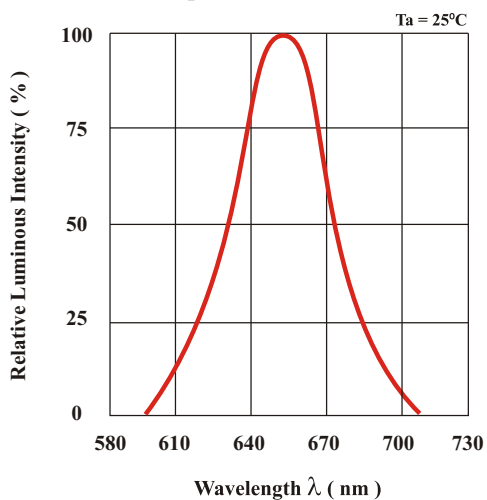
Luminous Intensity vs Ambient Temperature



Luminous Intensity vs Forward Current



Spectrum Distribution



Radiation Diagram

