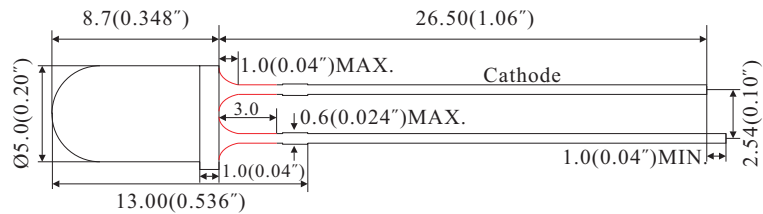
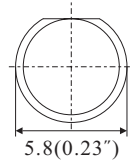




## PACKAGE DIMENSION

**TY-50SR1TD20-170**



### Selection Guide

Part No.	Dice		Lens Color	(If=20mA)	Viewing Angle
	Raw Material	Emitted Color		TYP. (Mcd)	
TY-50SR1TD20-170	AlGaAs	Super Bright Red	Tiny Red Diffused	170	20°

### Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Maximum Rating	Units
Power Dissipation	PD	34	mW
Peak Forward Current <sup>4</sup>	IFP	80	mA
Forward Current	IF	15	mA
Reverse Voltage	VR	5	V
Capacitance	C	11	pF
Operating/Storage Temperature	TA/TSTG	-40°C to +85°C	
Lead Solder Temperature	TSOL	260°C for 5 Seconds	

### Electrical / Optical Characteristics at TA=25°C

Parameter	Symbol	TYP.	MAX.	Units	Test Condition
Peak Wavelength	$\lambda_{peak}$	660	-	nm	IF=20mA
Dominant Wavelength	$\lambda_D$	643	-	nm	IF=20mA
Spectral Line Half-width	$\Delta\lambda$	20	-	nm	IF=20mA
Forward Voltage	VF	1.90	2.25	V	IF=20mA
Reverse Current	IR	-	10	uA	VR=5V

Notes:

1. All dimension are in millimeter (inches);
2. Tolerance is  $\pm 0.25\text{mm}(0.01\text{ inches})$  unless otherwise specified;
3. Not recommend to solder within 3mm from the resin;
4. 1/10 Duty Cycle, 0.1ms Pulse Width.