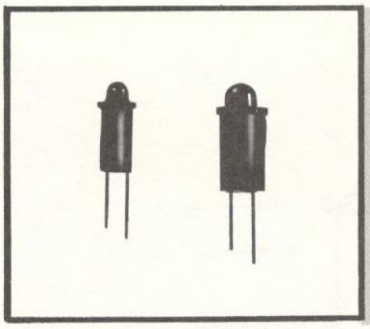
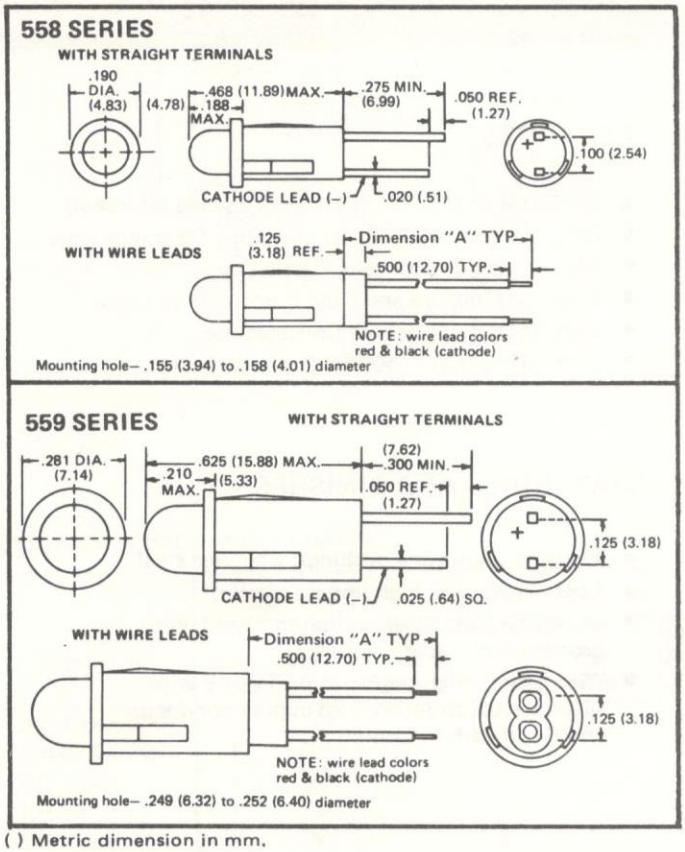


Snap-in LED Indicators

.156" and .250" mounting hole

558 & 559 series



( ) Metric dimension in mm.

558 Series: Mount in .156" hole
559 Series: Mount in .250" hole

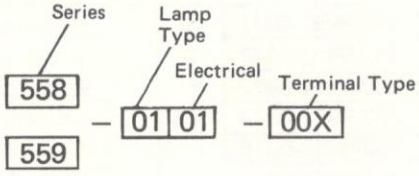
Features

- Snap-in mounting requires no additional hardware
- Available with Red, Green or Yellow LEDs, with and without integral current limiting resistors
- Compact design allows high density packaging:
  558 Series mounts on 0.2" centers
  559 Series mounts on 0.3" centers
- Straight terminals suitable for wire-wrapping and/or soldering, or wire leads
- Designed for quick positive insertion in panels from .031" through .062"
- Black housing enhances contrast ratio
- Polarity identified
- High Brightness LEDs
- Wide Angle visibility
- Low power requirements-10-20 mA
- Solid State reliability
- IC compatible
- Vibration and shock resistant

Applications

- Computers
- Process controllers
- Instrumentation
- Point of sale
- Communications equipment
- Medical equipment
- Home entertainment equipment
- Vending machines

Ordering Information



Lamp type (LED color)

Standard Efficiency	
01	Red diffused
02	Green diffused
03	Yellow diffused

High Efficiency*	
21	Red diffused
22	Green diffused
23	Yellow diffused

* 559 only

Electrical

01	Requires external resistor
02	5V, 15mA (01, 02, 03 lamp only)
03	12V, 15mA (01 lamp only-559 only)

Terminal type

001	Straight Terminals
Dimension "A" wire leads	
003	6.000 (152.40) Typ.
004	8.000 (203.20) Typ.
005	10.000 (254.00) Typ.
006	12.000 (304.80) Typ.
007	14.000 (355.60) Typ.

Standard Efficiency snap-in LED indicators 558 and 559 Series

Operating Characteristics — 558 and 559 Series without Integral Resistor

Symbol	Characteristics	RED			GREEN			YELLOW			Units		TEST CONDITIONS		
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.			RED	GREEN	YELLOW
I_V	Luminous Intensity: 558 Series	.3	2.4		.8	2.0		1.0	2.5		mcd	I_F	20mA	20mA	10mA
	559 Series	.8	1.5		1.6	3.2		1.6	3.2				10mA		20mA
λpk	Wavelength: 558 Series		665			560			580		nm				
	559 Series		700												
V_F	Forward Voltage: 558 Series		1.6	2.0		2.4	3.0		2.2	3.0	V	I_F	20mA	20mA	10mA
	559 Series		1.9	2.4									5mA		20mA
BV_R	Reverse breakdown voltage	3.0			5.0			3.0			V	I_R	100μA* 10μA	10μA	10μA

*558-0101-XXX

Maximum Ratings — 558 and 559 Series without Integral Resistor

Characteristics	RED				GREEN		YELLOW		Units	TEST CONDITIONS	
	558 Series		559 Series		Min.	Max.	Min.	Max.			
	Min.	Max.	Min.	Max.							
Power Dissipation		100		70		120		120	mW	derate from 25° C	1.62 mW/° C
Forward DC Current		50		30		30		558 20	mA		
								559 30			
Peak Forward Current		1				1		1	A	1μs pulse 300pps	
Peak Reverse Voltage		5				5		5	V		
Operating temperature	-55	+100	-25	+80	-55	+100	-55	+100	°C		
Storage temperature			-30	+85							
Lead Soldering temperature		260				260		260	°C		

Operating Characteristics — 558 and 559 Series WITH INTEGRAL RESISTOR (5V and 12V*)

Symbol	Characteristics	RED			GREEN			YELLOW			Units	TEST CONDITIONS		
		Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.			Red	Gr., Yel.
I_V	Luminous Intensity 558 series	.3	.8		.5	2.0		.5	2.0		mcd	V_F	5.0V	5.0V
	559-0X02	.8			.8	2.0		.8	2.0		mcd	V_F	5.0V	5.0V
	559-0103	.8									mcd	V_F	12.0V	
λpk	Wavelength		655			565			580		nm			
I_F	Forward Current		15	20		15	20		15	20	mA	V_F	5.0V	5.0V
			12	20							mA	V_F	12.0V	
BV_R	Reverse Breakdown Voltage	3			3			3			V	I_R	10μA	10μA

Maximum Ratings — 558 and 559 Series WITH INTEGRAL RESISTOR (5V and 12V*)

Characteristics		RED		YELLOW		GREEN		Units	Test Conditions
		Min.	Max.	Min.	Max.	Min.	Max,		
DC Forward Voltage	558 & 559-0202, -0302		7.5		7.5		7.5	V	Derate to 5V at 100°C
	559-0102, -0103		14						Derate to 12V at 70° C
Reverse Voltage			7.0		7.0		7.0		
Operating & Storage temperature	(5V)	-55	+100					°C	
	(12V)	-55	+70					°C	
Lead Soldering Temp.			230		230		230	°C	Maximum 7 Seconds

*12V available in RED only.