

Part Number	Lens color	Forward Voltage(VF)						Reverse Current Max. (IR)	Continuous Forward Current (IF)	Power Dissipation TYP. (Pd)	Radiant Intensity(Ee=mW/er)						Peak Wave length (λ p)
		IF=20mA			IF=100mA tp=100us tp/T=0.01						IF=20mA			IF=100mA tp=100us tp/T=0.01			
		MIX.	TYP.	MAX.	MIX.	TYP.	MAX.				MIX.	TYP.	MAX.	MIX.	TYP.	MAX.	

Φ3ROUND INFRARED EMITTING DIODE

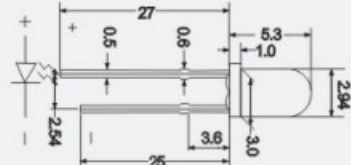
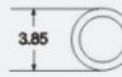


Fig:A-1

NOTE:TOLERANCE±0.5mm

Unit:mm

IR314C	W.C.	1.1	1.2	1.5	—	1.6	1.85	10uA	40mA	100mW	7.5	15	—	—	75	—	940nm
IR314B	Blue	1.1	1.2	1.5	—	1.6	1.85	10uA	40mA	100mW	7.5	15	—	—	75	—	940nm
IR314C	W.C.	—	1.4	1.6	—	1.8	2.4	10uA	40mA	100mW	9.0	18	—	—	90	—	850nm
IR314B	Blue	—	1.4	1.6	—	1.8	2.4	10uA	40mA	100mW	9.0	18	—	—	90	—	850nm

Φ5ROUND INFRARED EMITTING DIODE

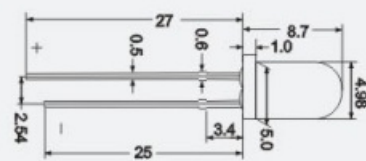


Fig:A-1

NOTE:TOLERANCE±0.5mm

Unit:mm

IR513C	W.C.	1.1	1.2	1.5	—	1.6	1.85	10uA	40mA	100mW	7.5	15	—	—	75	—	940nm
IR513B	Blue	1.1	1.2	1.5	—	1.6	1.85	10uA	40mA	100mW	7.5	15	—	—	75	—	940nm
IR513C	W.C.	—	1.4	1.6	—	1.8	2.4	10uA	40mA	100mW	9.0	18	—	—	90	—	850nm
IR513B	Blue	—	1.4	1.6	—	1.8	2.4	10uA	40mA	100mW	9.0	18	—	—	90	—	850nm

SIDE LOOK INFRARED EMITTING DIODE

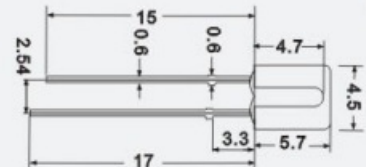


Fig:T

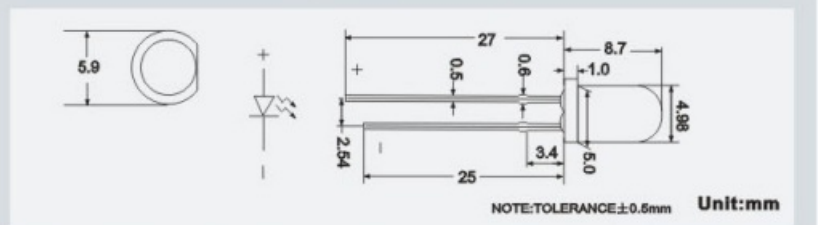
NOTE:TOLERANCE±0.5mm

Unit:mm

IR116C	W.C	—	1.2	1.5	—	1.6	1.85	10uA	40mA	100mW	7.5	15	—	—	75	—	940nm
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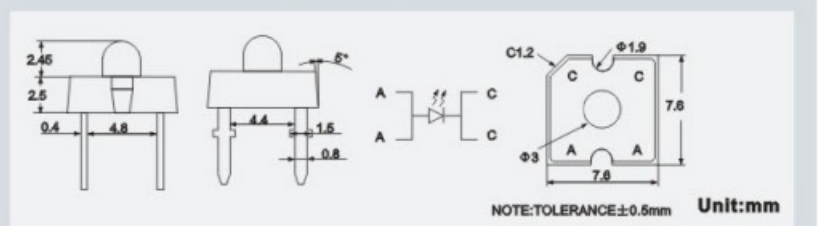
Part Number	Lens color	Forward Voltage(VF)						Reverse Current Max. (IR)	View Angle	Power Dissipation TYP. (Pd)	Radiant Intensity(Ee=mW/sr)						Peak Wave length (λp)
		IF=20mA			IF=100mA tp=100us tp/T=0.01						IF=20mA			IF=100mA tp=100us tp/T=0.01			
		MIX.	TYP.	MAX.	MIX.	TYP.	MAX.				MIX.	TYP.	MAX.	MIX.	TYP.	MAX.	

Φ5ROUND HIGH POWER INFRARED EMITTING DIODE



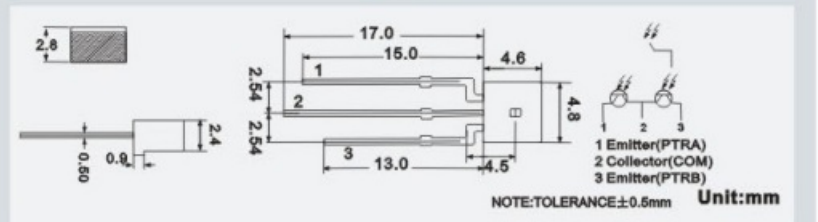
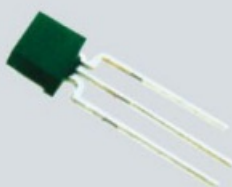
HIR524C	W.C.	1.1	1.2	1.5	—	1.6	1.85	10uA	60	150mW	9.0	23	—	—	90	—	940nm
HIR524B	Blue	1.1	1.2	1.5	—	1.6	1.85	10uA	60	150mW	9.0	23	—	—	90	—	940nm
HIR524C	W.C.	—	1.4	1.6	—	1.8	2.4	10uA	60	150mW	12	30	—	—	120	—	850nm
HIR524B	Blue	—	1.4	1.6	—	1.8	2.4	10uA	60	150mW	12	30	—	—	120	—	850nm

HIGH POWER INFRARED EMITTING DIODE



HIR643C	W.C.	1.1	1.2	1.5	—	1.6	1.85	10uA	20	200mW	9.0	25	—	—	100	—	940nm
HIR643B	Blue	1.1	1.2	1.5	—	1.6	1.85	10uA	20	200mW	9.0	25	—	—	100	—	940nm
HIR643C	W.C.	—	1.4	1.6	—	1.8	2.4	10uA	20	200mW	15	30	—	—	150	—	850nm
HIR643B	Blue	—	1.4	1.6	—	1.8	2.4	10uA	20	200mW	15	30	—	—	150	—	850nm

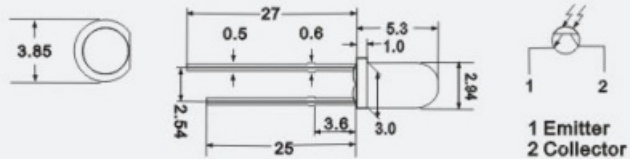
SIDE LOOK DUAL PHOTO TRANSISTOR



Part Number	Lens color	Reverse Dark Current		C-E Saturation voltage		Light Current		Rise Time 10% to 90%	Fall Time 90% to 10%	Wavelength of Peak Sensitivity	Rang of spectral Bandwidth	Collector-Emitter Down Current	Emitter r-Collector Down Current	Collector Current	C-power Dissipation
		VR=10V Ee=0m W/cm²	IC=0.5 mA Ee=10m W/cm²	VCE=5V Ee=1m W/cm²	VCE=5V IC=1mA	RL=100o hms									
		MAX	TYP	MAX	MIN	TYP	TYP	TYP							
2PT217B	Black	100nA	0.1V	0.4V	200 uA	1400 uA	10uS	10uS	940nm	840--1200nm	30V	5V	20mA	100mW	
2PT217BL	Black	100nA	0.1V	0.4V	200 uA	1400 uA	10uS	10uS	940nm	840--1200nm	30V	5V	20mA	100mW	

Part Number	Lens color	Reverse Dark Current	C-E Saturation voltage		Light Current		Rise Time 10% to 90%	Fail Time 90% to 10%	Wavelength of Peak Sensitivity	Rang of spectral Bandwidth	Collector-Emitter Down Current	Emitter r-Collector Down Current	Collector Current	C-power Dissipation
		VR=10V Ee=0m W/cm ²	IC=0.5 mA Ee=10m W/cm ²	VCE=5V Ee=1m W/cm ²		VCE=5V IC=1mA	RL=100o hms							
		MAX	TYP	MAX	MAX	MIN	TYP	TYP						

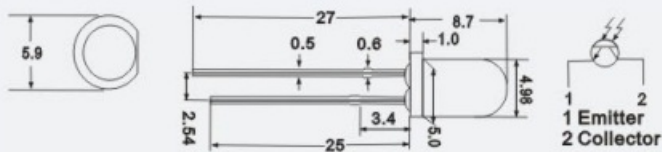
Φ3 ROUND PHOTO TRANSISTOR



NOTE:TOLERANCE±0.5mm Unit:mm

PT314C	W.C.	100nA	0.8V	200 nA	1400 uA	10uS	10uS	940nm	300--1200nm	30V	5V	20mA	100mW
PT314B	Black	100nA	0.8V	200 nA	1400 uA	10uS	10uS	940nm	840--1200nm	30V	5V	20mA	100mW

Φ5 ROUND PHOTO TRANSISTOR



NOTE:TOLERANCE±0.5mm Unit:mm

PT5113C	W.C.	100nA	0.8V	200 uA	1400 uA	10uS	10uS	940nm	300-1200nm	30V	5V	20mA	100mW
PT513B	Black	100nA	0.8V	200 uA	1400 uA	10uS	10uS	940nm	840-1200nm	30V	5V	20mA	100mW

SIDE LOOK PHOTO TRANSISTOR

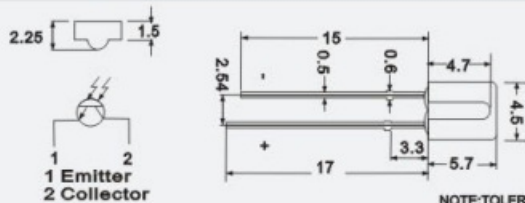


Fig:T

NOTE:TOLERANCE±0.5mm Unit:mm

Part Number	Lens Color	Reverse Dark Current	C-E Saturation voltage		Light Current		Rise Time 10% to 90%	Fail Time 90% to 10%	Wavelength of Peak Sensitivity	Rang of spectral Bandwidth	Collector-Emitter Down Current	Emitter r-Collector Down Current	Collector Current	C-power Dissipation
		VR=10V Ee=0m W/cm ²	IC=0.5 mA Ee=10m W/cm ²	VCE=5V Ee=1m W/cm ²		VCE=5V IC=1mA	RL=100o hms							
		MAX	MAX	MAX	MIN	TYP	TYP	TYP						
PT5116C	W.C.	100nA	0.8V	200 μ A	1400 μ A	10uS	10uS	940nm,	840-1200nm	30V	5V	20mA	100mW	