

# INFRARED EMITTING DIODES

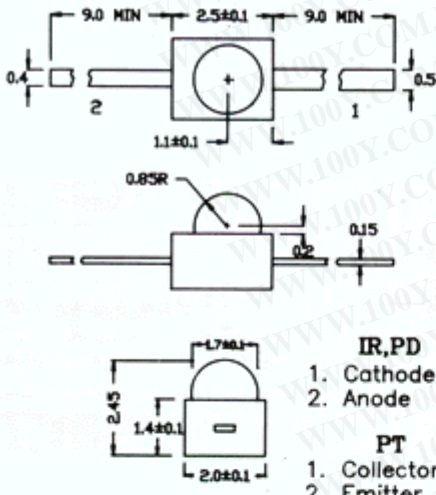
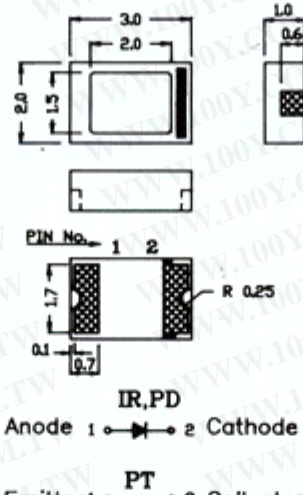
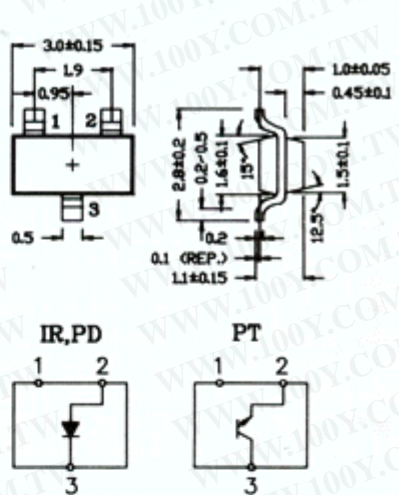
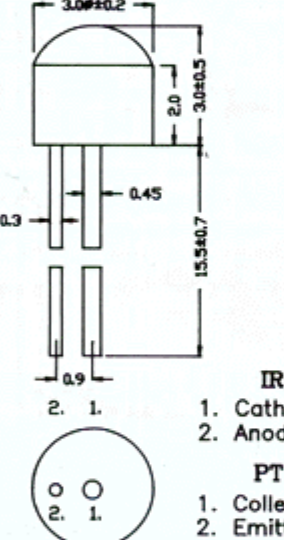
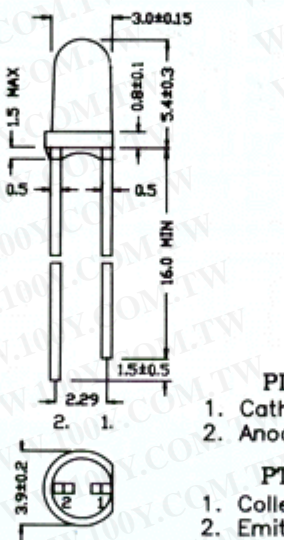
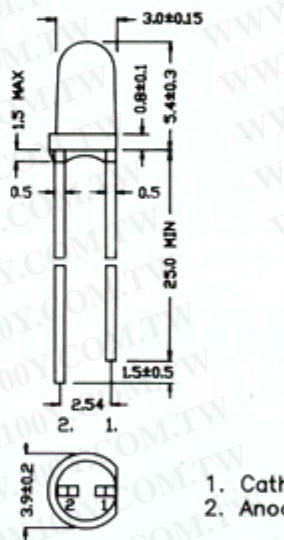
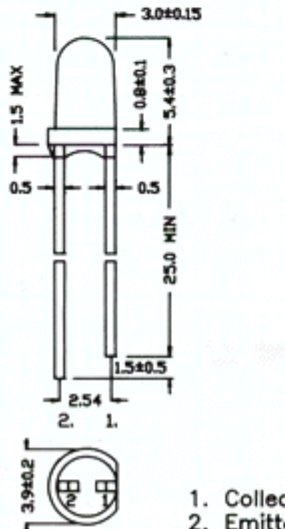
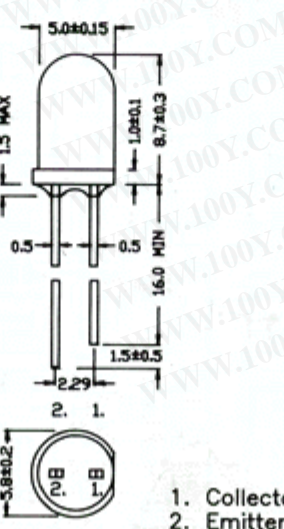
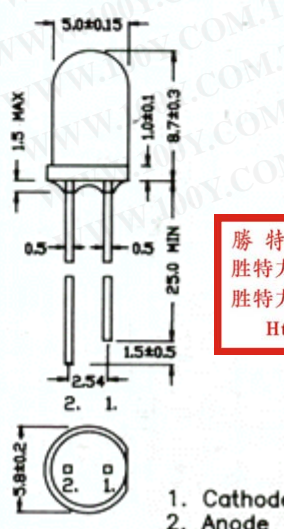
勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

## ■ Absolute Maximum Ratings (Ta=25°C)

Ratings	Symbol	Value								Units
		SY-I R10	SY-I R12	SY-I R15	SY-I R30	SY-I R33	SY-I R53 A	SY-I R53 L	SY-I R74 Y	
Power dissipation	Po	80	80	80	80	80	100	100	80	mW
Forward Current	IF	50	50	50	60	60	100	100	60	mA
Reverse voltage	VR	5	5	5	5	5	5	5	5	V
Operating temperature	Topr	-20~ +70	-20~ +70	-20~ +70	-20~ +70	-20~ +70	-30~ +70	-30~ +70	-20~ +70	°C
Storage temperature	Tstg	-20~ +80	-20~ +80	-20~ +80	-20~ +100	-20~ +08	-30~ +80	-30~ +80	-20~ +80	°C
Soldering temperature	Tsold	260	260	260	260	260	260	260	260	°C

## ■ Electrical-Optical Characteristics (Ta=25°C)

Part Number	VF		Po		$\lambda$ P	$\Delta \theta$	Package
	Max.(V)	IF(mA)	Typ.(mw/str)	IF(mA)	Typ.(nm)	Typ.(deg)	
SY-IR10	1.6	20	0.7	20	940	±15	Epoxy resin (A-1)
SY-IR12	1.6	20	0.7	20	940	±50	Ceramic Epoxy resin (A-2)
SY-IR15	1.6	20	0.7	20	940	±70	SOT-23 (A-3)
SY-IR33	1.6	20	4.0	40	940	±8	Epoxy resin (A-6)
SY-IR53A	1.6	20	20.0	60	940	±15	Epoxy resin (A-9)
SY-IR53L	1.7	20	20.0	60	880	±15	Epoxy resin (A-9)
SY-IR74Y	1.6	20	1.8	20	940	±15	Epoxy resin (A-16)

SY-IR10, PT, PD (A-1)	SY-IR12, PT, PD (A-2)	SY-IR15, PT, PD (A-3)
 <p>IR,PD 1. Cathode 2. Anode</p> <p>PT 1. Collector 2. Emitter</p>	 <p>IR,PD Anode 1 → 2 Cathode</p> <p>PT Emitter 1 → 2 Collector</p>	 <p>IR,PD</p> <p>PT</p>
SY-IR30, PT (A-4)	SY-32PT, PD (A-5)	SY-IR33 (A-6)
 <p>IR 1. Cathode 2. Anode</p> <p>PT 1. Collector 2. Emitter</p>	 <p>PD 1. Cathode 2. Anode</p> <p>PT 1. Collector 2. Emitter</p>	 <p>1. Cathode 2. Anode</p>
SY-34PT (A-7)	SY-52PT (A-8)	SY-IR53, A, F, L, N (A-9)
 <p>1. Collector 2. Emitter</p>	 <p>1. Collector 2. Emitter</p>	 <p>1. Cathode 2. Anode</p>

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SY-54PT, PD (A-10)	SY-IR48, PT, PD (A-11)	SY-75PD (A-12)
<p>PD              1. Cathode              2. Anode</p> <p>PT              1. Collector              2. Emitter</p>	<p>IR, PD              1. Cathode              2. Anode</p> <p>PT              1. Collector              2. Emitter</p>	<p>1. Cathode              2. Anode</p>
SY-3572PD (A-13)	SY-3572PDR (A-14)	SY-3573PD (A-15)
<p>1. Cathode              2. Anode</p>	<p>1. Cathode              2. Anode</p>	<p>1. Cathode              2. Anode</p>
SY-IR74Y, CIY (A-16)	SY-74PD, 74PDT (A-17)	SY-74PT, PT-ST (A-18)
<p>1. Cathode              2. Anode</p>	<p>PDT              1. Collector              2. Emitter</p> <p>PD              1. Cathode              2. Anode</p>	<p>PT, PT-ST              1. Collector              2. Emitter</p>