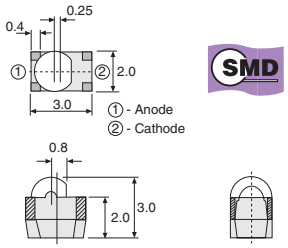
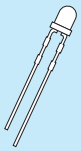
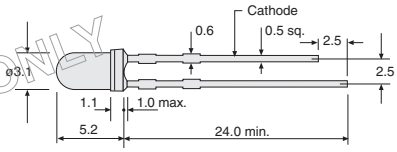
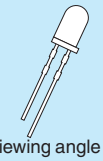
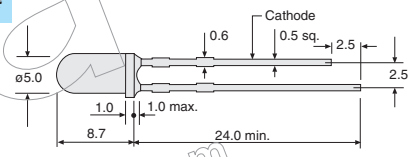
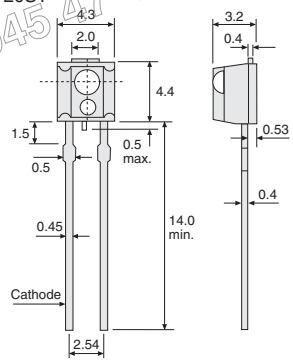
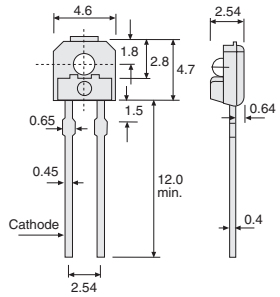
INFRA-RED EMITTERS & DETECTORS

NEW

A range of matching infra-red LEDs and photo transistor detectors available in a choice of packages.

EMITTERS - LEDs

Case & Viewing Angle	Peak Wavelength nm	Forward Voltage V_F	Output Power	Manf. Part No. & anglia Order Code	Dimensions (mm) & Pin Connections
SMD					
Side view Viewing angle 24°	950	1.2V @ 20mA	3.5mW @ 20mA	***SIM-012ST***	
3mm					
	950 940	1.3V @ 100mA 1.3V @ 50mA	8mW @ 20mA 8.4mW @ 20mA	***SIR-34ST3F*** ***SIR-341ST3F***	
Viewing angle SIR-34ST3F 54° SIR-341ST3F 32°					
5mm					
 Viewing angle 30°	950 940	1.3V @ 100mA 1.3V @ 50mA	8mW @ 20mA 11mW @ 20mA	***SIR-56ST3F*** ***SIR-563ST3F***	
Side view					
	950 940	1.3V @ 50mA 1.3V @ 50mA	7mW @ 50mA 7mW @ 50mA	***SIM-20ST*** ***SIM-22ST***	SIM-20ST 
Viewing angle SIM-20ST 30° SIM-22ST 60°					SIM-22ST 

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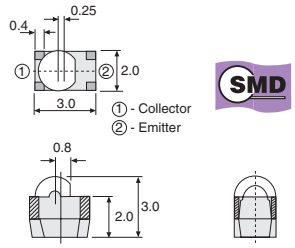
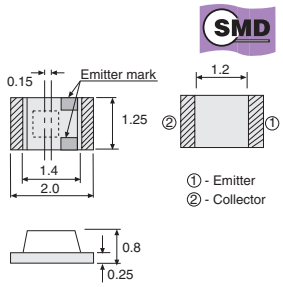
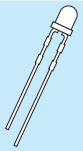
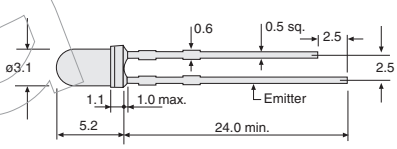
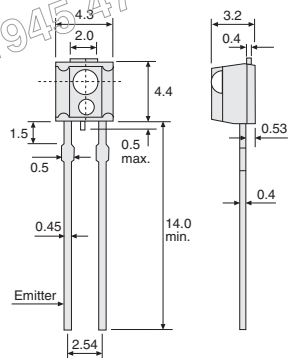
INFRA-RED EMITTERS & DETECTORS *continued*

NEW

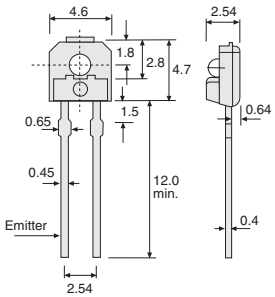
DETECTORS - PHOTO TRANSISTORS

Case & Viewing Angle	Visible Light Filter	Peak Wavelength nm	Dark Current I_{CEO}@V_{CE} 10V µA max.	Response Time tr, tf µs typ.	Manf. Part No. & anglia Order Code	Dimensions (mm) & Pin Connections
SMD						
Side view Viewing angle 24°	yes	800	0.5	10	***RPM-012PB***	
Viewing angle 120°	N/A	*600(daylight)	0.5	10	***RPM-075PTT86***	
3mm						
 Viewing angle 72°	yes	800	0.5	10	***RPT-34PB3F***	
Side view						
	yes yes	800 800	0.5 0.5	10 10	***RPM-20PB*** ***RPM-22PB***	RPM-20PB 

**Peak sensitivity optimised to same level as the human eye. Ideal for applications controlling lighting levels based on available ambient levels.*

Viewing angle
RPM-20PB 28°
RPM-22PB 64°

RPM-22PB



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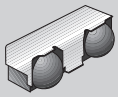

IrDA INFRA-RED COMMUNICATION MODULES
SIR (IrDA 1.2) & MIR (IrDA 1.3)

see page overleaf