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Energy Saving! **ECO Devices**
Product Information

Infrared Light Emitting Diodes Top View Type

SIM-040ST **NEW**

Inquiries concerning our products

[Data Sheet \(PDF, K\)](#)

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[Product description]
ROHM's optical sensors serve as eyes to monitor changes of any motions, and comply with customers' day-to-day diversifying requests.

Product specifications

Absolute maximum ratings (Tc=25°C)		
Rated parameters	Standard value	Conditions
Forward current I _F (mA)	100	
Reverse voltage V _R (V)	5	
Power dissipation P _D (mW)	180	
Peak forward current I _{FP}	-	
Operating temperature Topr(°C)	-25 to 85	
Storage temperature Tstg(°C)	-40 to 85	

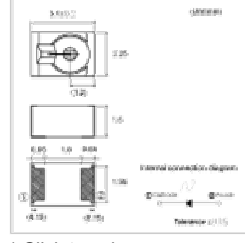
Electro-optical characteristics (Ta=25°C)		
Parameters	Value	Conditions
Optical output P _O	-	
Emitting strength-Min. IE(mW/sr)	40	100
Emitting strength-Typ. IE	-	
Forward voltage V _F (V)	1.7	100
Reverse current I _R (μA)	10	V _R =3V
Peak light emitting wavelength λP(nm)	870	I _F =100mA
Spectral line half width Δλ	-	
Half viewing angle θ1/2(deg)	±20	I _F =100mA
Response time tr-tf(μs)	0.1	
Cut-off frequency F _C	-	

Outline



Surface Mount Type (Topview)

Dimensions



* Click to enlarge.

- Optical Sensors
- 2008.07.23**
Industry's thinnest ! 4 Direction Detection Sensor RPI-1040 !
- Part No. explanation
- Notes on mounting
- Soldering conditions
- FAQ
- ROHM Internet Direct Shopping
- RoHS directive compliance
- Contact us
- What is a Optical Sensors?

*The contents described here are just outline for introduction.
Please obtain the specification sheets from us for thorough check before use.

Status Product

Part No.	Status *1	RoHS	Packing style	Package quantity	Samples *2	Sales
SIM-040ST	Active	Yes	Taping	2000		Inquiry

*1 Active: Production or current type Preparation: Preliminary type Preview: Development type
*2 Available only as free rank.

Others

Part number	Type	Peak light emitting wavelength λP (nm)	Half viewing angle θ1/2 (deg)	Photoelectric current P _O (Typ.)(mW)		Forward voltage V _F (Typ.)(V)		Response time tr-tf (μA)	RoHS
				I _F (mA)		I _F (mA)			
SIM-012SB	Surface Mount Type (Sideview)	950	±12	3.5	20	1.2	20	1	Yes
SIR-320ST3F	φ3 Moldresin	940	±18	9	50	1.2	50	1	Yes
SIR-34ST3F	φ3 Moldresin	950	±27	8	50	1.3	100	1	Yes

SIR-341ST3F	φ3 Moldresin	940	±16	8.4	50	1.3	100	1	Yes
SIR-505STA47	φ5 Moldresin	950	±15	8	50	1.38	100	1	Yes
SIR-566ST3F	φ5 Moldresin	950	±15	8	50	1.3	100	1	Yes
SIR-563ST3F	φ5 Moldresin	940	±15	11	50	1.34	50	1	Yes
SIR-568ST3F	φ5 Moldresin	850	±13	13	50	1.6	50	tr:8.0(ns) tf:6.0(ns)	Yes
SIM-20ST	Sideview Resin	950	±15	7	50	1.3	50	1	Yes
SIM-22ST	Sideview Resin	950	±30	7	50	1.3	50	1	Yes
NEW SIM-030ST	Surface Mount Type (Topview)	870	±20	-	-	1.7	100	0.1	Yes
NEW SIM-040ST	Surface Mount Type (Topview)	870	±20	-	-	1.7	100	0.1	Yes
SML-S13RT	Surface Mount Type (Reverse mount)	850	-	-	-	1.4	20	-	Yes
SCM-013RT	Surface Mount Type (Topview)	850	-	-	-	1.6	20	-	Yes
SML-J14RT	Surface Mount Type (Topview)	870	-	-	-	1.45	20	-	Yes

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