# High power chip sensor, side view type

## SIM-012SB

The SIM-012SB is ultra small size and high power ohip sensor. Original technology, original structure and original Optical design enable to use Automatic moantinig machine, Reflow, ultra smallsize, High power.



#### Absolute maximum ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Forward current	lf	40	mA
Reverse voltage	VR	5	V
Power dissipation	Po	60	mW
Pulse forward current	IFP*	0.5	А
Operating temperature	Topr	-30~+85	°C
Storage temperature	Tstg	-40~+100	°C

\* Pulse width=0.1msec, duty ratio 1%

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#### Sensors

#### •Electrical and optical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Optical output	Po	-	3.5	-	mW	I⊧=20mA
Emitting strength	le	0.9	-	7.1	mW/sr	I⊧=20mA
Forward voltage	VF	_	1.2	1.5	V	I⊧=20mA
Reverse current	IR	_	-	10	μΑ	VR=3V
Peak light emitting wavelength	λρ	-	950	-	nm	I⊧=20mA
Spectral line half width	Δλ	_	40	-	nm	I⊧=20mA
Half-viewing angle	θ1/2	_	±12	-	deg	I⊧=20mA
Pesponse time	tr∙tf	-	1.0	-	μs	I⊧=20mA
Cut-off frequency	fc	-	1.0	-	MHz	IF=20mA

•Electrical and optical characteristic curves



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#### Sensors





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