

Issued on Aug. 18, 2003Sales & Marketing Group
-Electronic Components & Devices



Front Monitor OPIC* Light Detector for DVD Recording

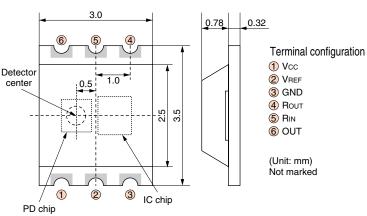
Features

- Compatible with ×8 speed DVD writing and ×48 speed CD writing
- Improved temperature sensitivity characteristics due to two-chip configuration
- Sensitivity can be adjusted with an external resistor.
- Reflow soldering
- Compact package:3×3.5 mm

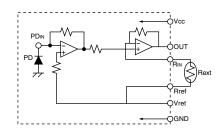
Specifications

Parameter	Symbol	Characteristics	Condition
Supply voltage	Vcc	4.5 to 5.5 V	
Dissipation current	Icc	TYP. 7 mA	
DC output voltage (sensitivity)	Rp	(TYP. +3.2 mV/μW)	λ=650 nm
Output offset voltage	Vod	±15 mV	
Settling time	tset	TYP. 20 ns	Output1 V→±10 mV
Rate of change in temperature sensitivity	∆Rp1/Rp1	+1 to +2.5 %	λ=650 nm, +25 °C→0 °C
	∆Rp2/Rp2	-5 to -2 %	λ=650 nm, +25 °C→+75 °C
Operating temperature	Topr	0 to +75 °C	
Reference voltage	V _{REF}	TYP. 2.1 V	

Outline Dimensions (Unit: mm)



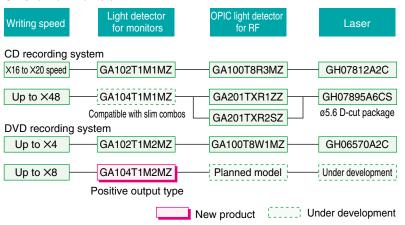
Block Diagram

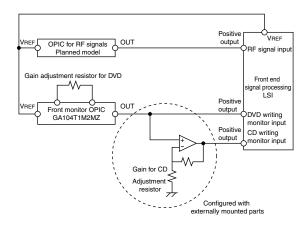


DataShe

Line-up

OPIC for front monitors





r "OPIC"(Optical IC) is a trademark of the SHARP Corporation. An OPIC consists of a light-detecting element and signal-processing circuit integrated onto a single chip.

Notice:

DataSheet4Un the absence of confirmation by device specification sheets, SHARP takes no responsibility for any defects that may occur in equipment using an SHARP devices.

devices shown in catalogs, data books, etc. Contact SHARP in order to obtain the latest device specification sheets before using any SHARP devices.

- Specifications, model names and availabilities are subject to change without notice for improvement.