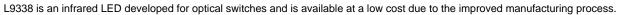
## Infrared LED **L9338**

## For optical switches





## Features

- High reliability
- Low price

## Applications

Optical switches

■ Absolute maximum ratings (Ta=25 °C, unless otherwise noted)

Parameter	Symbol	Condition	Value	Unit
Reverse voltage	VR		5	V
Forward current	lF		80	mA
Forward current reduction rate	-	Ta>25 °C	1.1	mA/°C
Pulse forward current		Pulse width=10 µs Duty ratio=1 %	1.0	А
Pulse forward current reduction rate	-	Ta>25 °C	13	mA/°C
Power dissipation	Р		150	mW
Operating temperature	Topr		-30 to +85	°C
Storage temperature	Tstg		-40 to +100 *1	°C

<sup>\*1:</sup> Guaranteed to resist temperature cycle test of up to 5 cycles.

■ Electrical and optical characteristics (Ta=25 °C)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Peak emission wavelength	λр	IF=50 mA	920	945	970	nm
Spectral half width	Δλ	IF=50 mA	ı	60	1	nm
Forward voltage	VF	IF=50 mA	-	1.34	1.42	V
Pulse forward voltage	VFP	IF=1 A	-	3.1	3.8	V
Reverse current	lR	VR=5 V	1	ı	5	μA
Radiant flux	фе	IF=50 mA	10	15	1	mW
Cut-off frequency *2	fc	IF=50 mA ± 4 mAp-p	0.1	0.3	-	MHz

<sup>\*2:</sup> Frequency at which the optical output drops by -3 dB from that at 10 kHz.

