

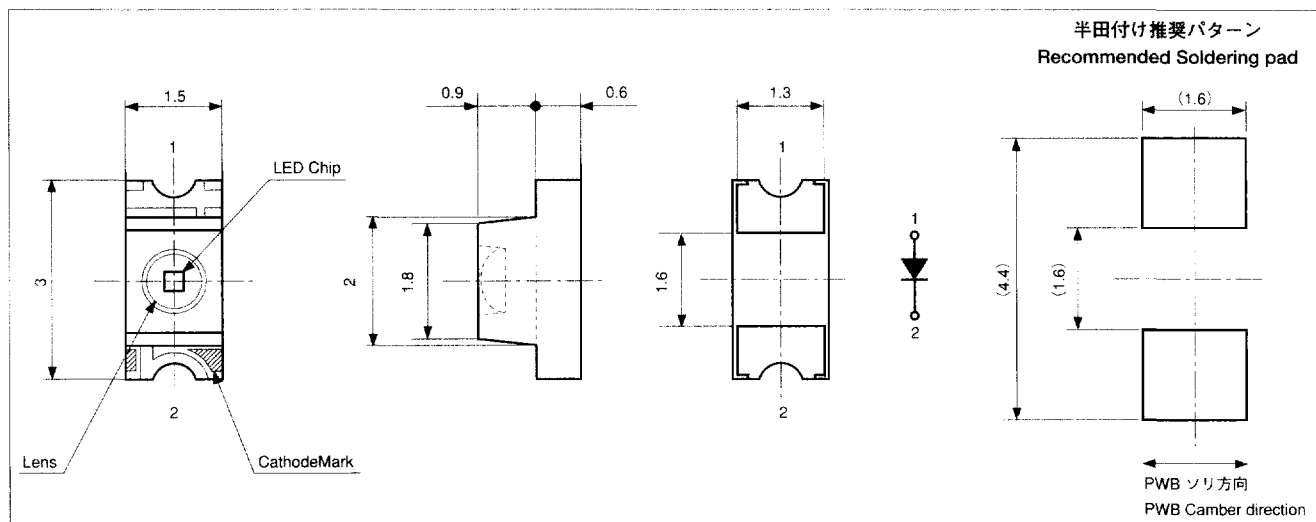


高出力赤外チップタイプ LED / Surface Mount Infrared LED

AN1102W

外形寸法 PACKAGE DIMENSIONS

Unit : mm



特長 FEATURES

- 発光波長は950nm。
- 広指向性 ($\Delta\theta = 60\text{deg.}$) タイプ。
- 高密度実装が可能。
- 実装方法としてリフロー、半田ディップに対応。
- The peak wavelength is 950nm.
- Wide-directional type ($\Delta\theta = 60\text{deg.}$).
- Tape and reel packaging.
- Designed for reflow and solder dip soldering methods.

絶対最大定格 ABSOLUTE MAXIMUM RATINGS

($T_a = 25^\circ\text{C}$)

項目 Item	記号 Symbol	最大定格 Maximum Ratings	単位 Units
許容損失 Power Dissipation	Pd	75	mW
順電流 Forward Current	I _F	50	mA
順電流低減率($T_a = 25^\circ\text{C}$ 以上) Derate Linearly From 25°C		0.67	mA/°C
尖頭順電流 Peak Forward Current	I _{FM}	300	mA
逆電流 Reverse Voltage	V _R	5	V
動作温度 Operating Temperature	T _{opr}	-30 ~ +85	°C
保存温度 Storage Temperature	T _{stg}	-30 ~ +90	°C
半田温度 Lead Soldering Temperature	T _{sol}	260°C for 5seconds	

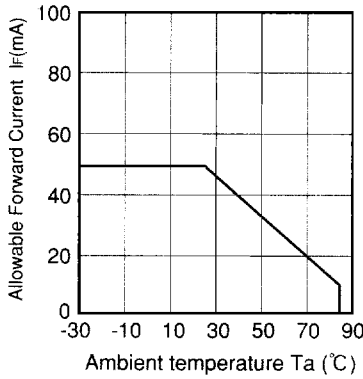
- I_{FM} の条件: Pulse $t_w \leq 100 \mu\text{sec}$, Duty $\leq 1/100$
- I_{FM} applies for the condition: $t_w \leq 100 \mu\text{sec}$ and duty cycle $\leq 1/100$

電氣的・光学的特性 ELECTRO-OPTICAL CHARACTERISTICS

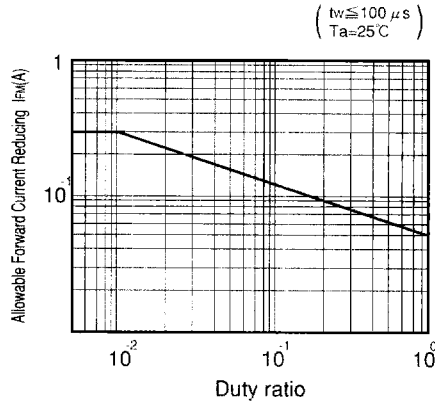
($T_a = 25^\circ\text{C}$)

項目 Item	記号 Symbol	条件 Conditions	MIN.	TYP.	MAX.	単位 Units
順電圧 Forward Voltage	V _F	I _F = 20mA	—	1.22	1.4	V
逆電流 Reverse Current	I _R	V _R = 5V			10	μA
接合容量 Capacitance	C _o	V = 0V, f = 1MHz		20		pF
放射強度 Axial Radiant Intensity	I _E	I _F = 20mA	0.5	0.8	—	mW/sr
光出力 Total Power	P _O	I _F = 20mA		2.0		mW
ピーク発光波長 Peak Wave Length	λ_p	I _F = 20mA		950		nm
スペクトル半幅幅 Spectral Line Half Width	$\Delta\lambda$	I _F = 20mA		45		nm
指向半値角 Half Intensity Angle	$\Delta\theta$	I _F = 20mA		60		deg
立ち上がり時間 Response Time (Rise)	t _r	I _F = 20mA		700		ns
立ち下がり時間 Response Time (Fall)	t _f	I _F = 20mA		700		ns
遮断周波数 Cut-off Frequency	f _c	I _F = 20mA DC + 10mA p-p -3dB from 0.1MHz		0.5		MHz

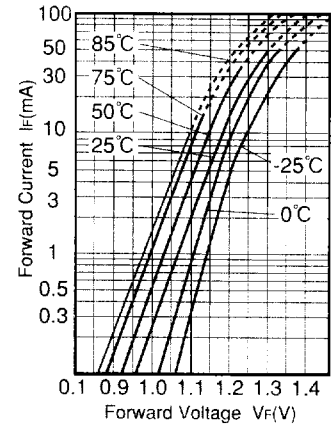
■最大許容電流－周囲温度特性
Allowable Forward current reducing
Ambient Temperature



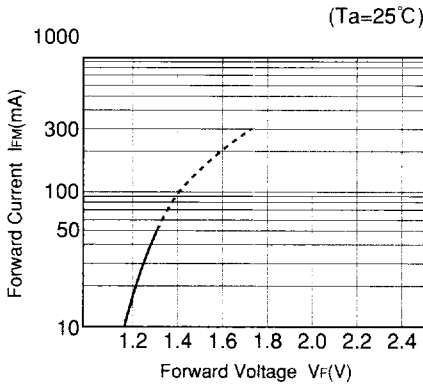
■順電流－デューティー比
Allowable forward current reducing -
Duty ratio



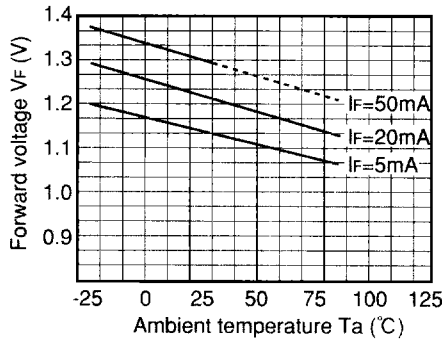
■順電流－順電圧特性
Forward current -
Forward voltage Characteristics



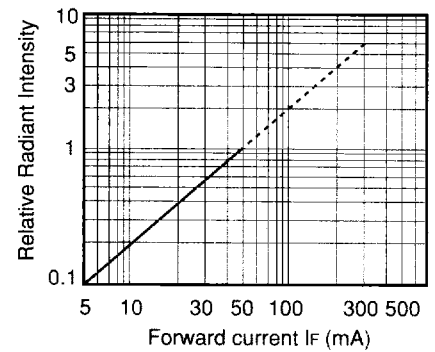
■順電流－順電圧特性
Forward current -
Forward voltage characteristics



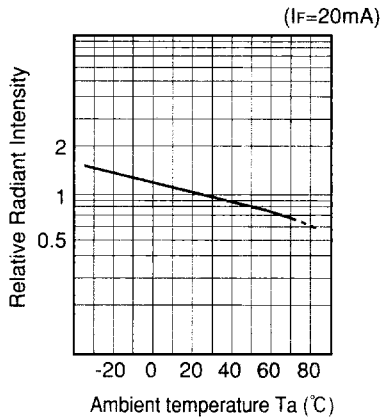
■順電圧－周囲温度特性
Forward voltage -
Ambient temperature characteristics



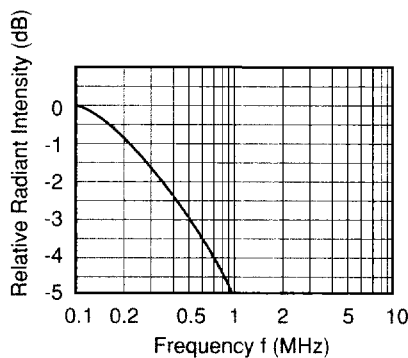
■順電流－相对光出力特性
Forward current -
Relative Radiant Intensity



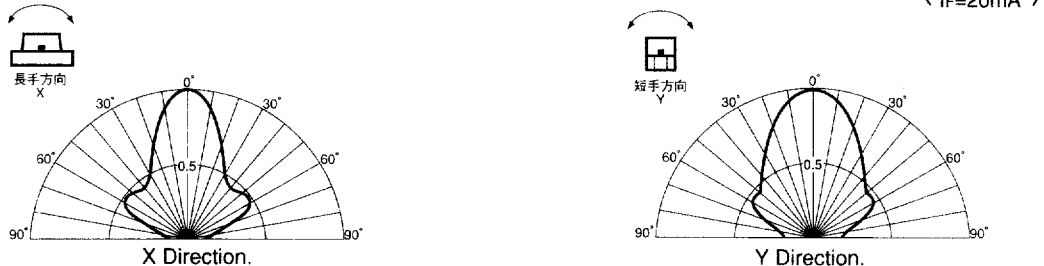
■相对光出力－周囲温度特性
Relative Radiant Intensity-
Ambient temperature characteristics



■周波数特性
Frequency characteristics



■指向特性图代表例
Example of Spatial Distribution



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