



■ INFRARED LED

AN333



■ Absolute Maximum Rating

Ta = 25°C

Part No.	Material	Power Dissipation Pd	Forward Current If	Derating ^{*1} ΔIfM	Peak Forward Current ^{*2} IfM	Reverse Voltage Vr	Operating Temperature Topr	Storage Temperature Tstg
AN333	GaAs	150	100	1.33	1,000	5	-30~+85	-30~+100
Units		mW	mA	mA/°C	mA	V	°C	°C

※1 The current derating for operation applies when temperature is above 25°C.

※2 IfM Condition : tw ≤ 100μs, Duty ≤ 1/100

■ Electro-Optical Characteristics

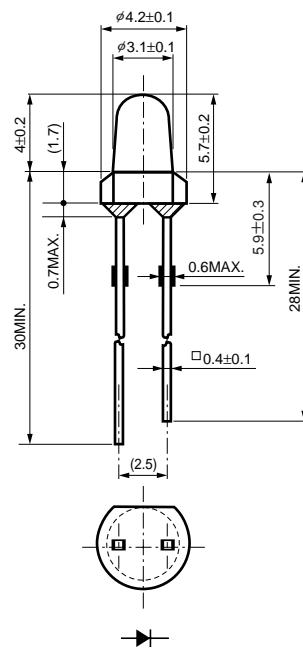
Ta = 25°C

Part No.	Foward Voltage VF			Reverse Current Ir		Axial Radiant Intensity Ie			Total Power Po		Wavelength			Cut-off Frequency ^{*3}			Response Time	
	TYP	MAX	If	MAX	VR	MIN	TYP	If	TYP	If	λp	Δλ	fc	MIN	TYP	If	tr·tf	
AN333	1.3	1.5	50	10	5	5	10	50	5	50	950	45	50	—	0.5	50	700	50
Units	V	V	mA	μA	V	mW/sr	mW/sr	mA	mW	mA	nm	nm	mA	MHz	MHz	mA	ns	mA

※3 fc Condition : If=50mA DC±5mA, -3dB from 0.1MHz

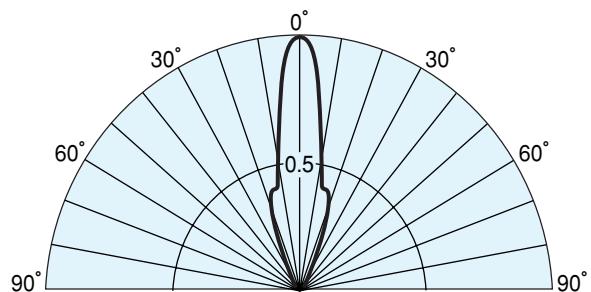
■ Package Dimensions

Unit : mm



■ Spatial Distribution

Ta = 25°C

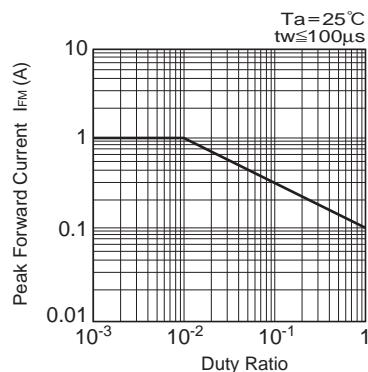




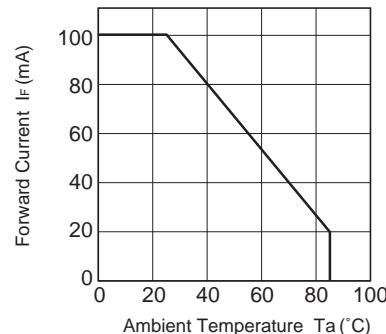
■ INFRARED LED

AN333

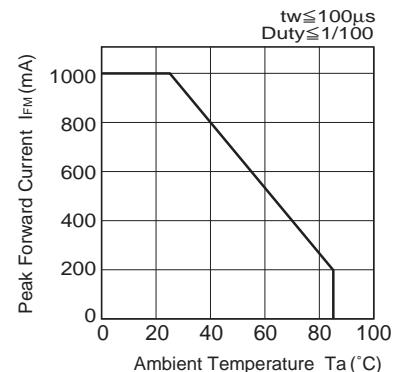
■ Peak Forward Current vs. Duty Ratio



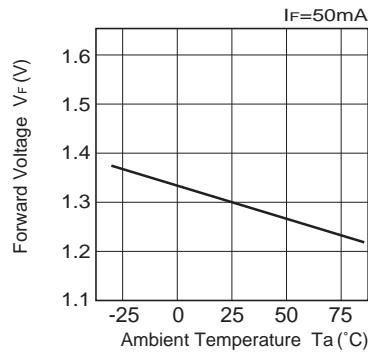
■ Ambient Temperature vs. Forward Current



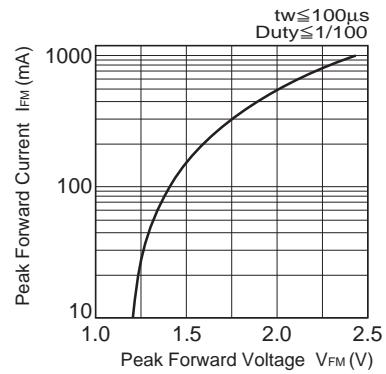
■ Ambient Temperature vs. Peak Forward Current



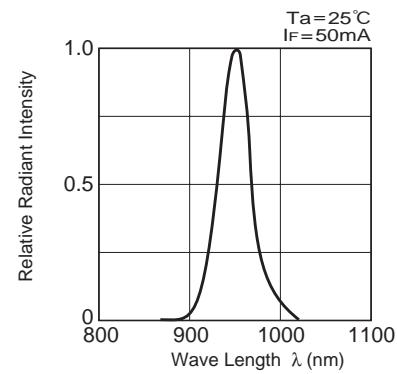
■ Ambient Temperature vs. Forward Voltage



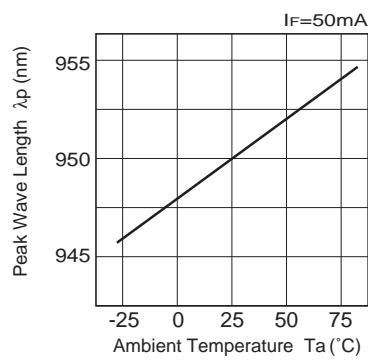
■ Peak Forward Current vs. Peak Forward Voltage



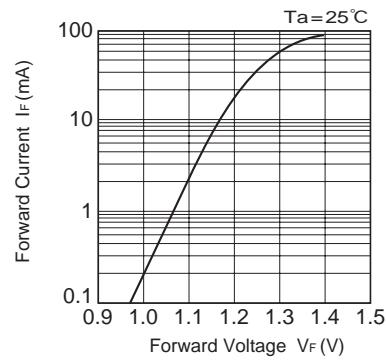
■ Spectral Distribution



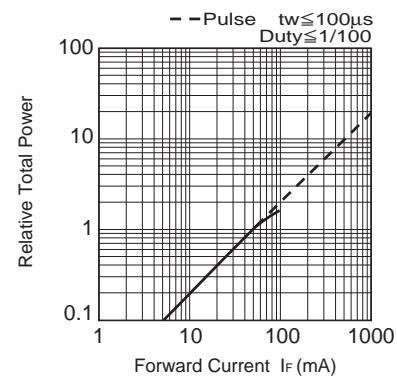
■ Ambient Temperature vs. Peak Wave Length



■ Forward Current vs. Forward Voltage



■ Forward Current vs. Relative Total Power



■ Ambient Temperature vs. Relative Total Power

