

Specification TENTATIVE	Products GaAs Infrared light Emitter	Type SIR-311ST3F
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1. Part number SIR-311ST3F
2. Construction GaAs Infrared Light Emitter
3. Application All kinds of light source
4. Dimension Fig-1
5. Absolute Max Ratings (Ta=25°C)

Power Dissipation	P_D	.....	160mW
Forward Current	I_F	.....	100mA
Pulse Forward Current	I_{FP}	.....	1.0A ※
Reverse Voltage	V_R	.....	5V
Operating Temp.	T_{opr}	.....	-25°C~+85°C
Storage Temp.	T_{stg}	.....	-40°C~+85°C

※ Pulse width 0.1msec, Duty ratio 1%

6. Electrical Optical Characteristics (Ta=25°C)

Item	Symbol	Min.	Typ.	Max.	Unit	Condition
Optical Output	P_D			-	mW	$I_F = 50mA$
Emitting Strength	I_E	-		-	mw/sr	$I_F = 50mA$
Forward Voltage	V_F	-	1.4	1.7	V	$I_F = 50mA$
Reverse Current	I_R	-	-	10	μA	$V_R = 3V$
Wave Length of Peak Light Emission	λ_P	-	950	-	nm	$I_F = 50mA$
Half Wave Length	$\Delta \lambda$	-	40	-	nm	$I_F = 50mA$
Directivity Half Angle	$\theta_{1/2}$	-		-	deg	$I_F = 50mA$

7. Package
Transparent

MASTER