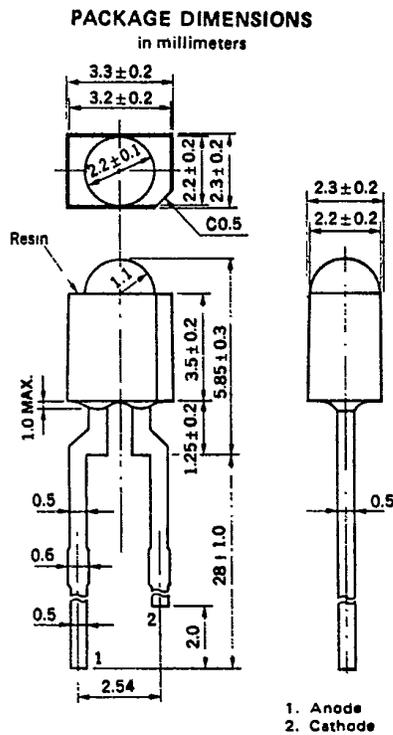


# LIGHT EMITTING DIODE SE310

## GaAs INFRARED EMITTING DIODE

### DESCRIPTION

The SE310 is a GaAs (Gallium Arsenide) Infrared Emitting Diode which is mounted on the lead frames and molded in plastic. On forward bias, it emits a spectrally narrow band of radiation peaking at 940 nm. It is suitable for a optical switch with combination of the PH110



### FEATURES

- Small size plastic molded package.
- High output power.
- Long life.
- Good linearity.
- Spectrally matched to silicon sensors.

### APPLICATIONS

- Light Source for Electro optical switches.
- Paper Tape and Punch Card Readers.
- Optical encoders.
- Photochoppers, Isolator.
- High speed Optoelectronic Data Links.

### ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation ( $T_a=25^\circ\text{C}$ )	P	100	mW
Maximum Forward Current ( $T_a=25^\circ\text{C}$ )	$I_F$	50	mA
Maximum Reverse Voltage ( $T_a=25^\circ\text{C}$ )	$V_R$	5.0	V
Maximum Temperatures			
Junction Temperature	$T_j$	100	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 to +100	$^\circ\text{C}$

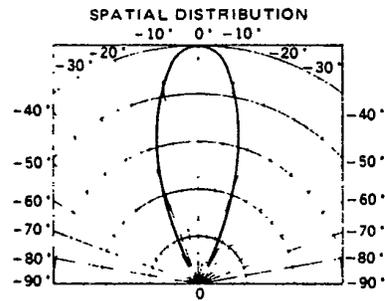
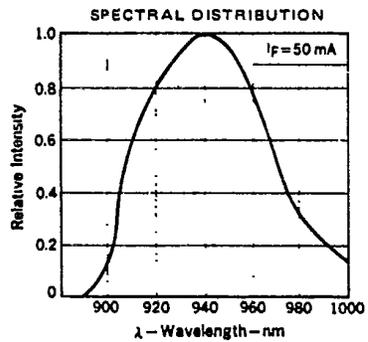
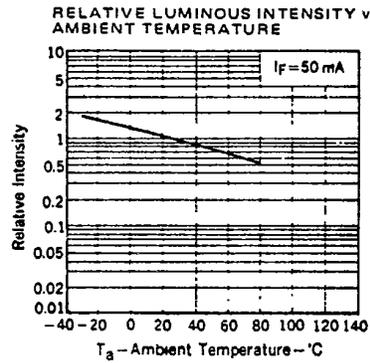
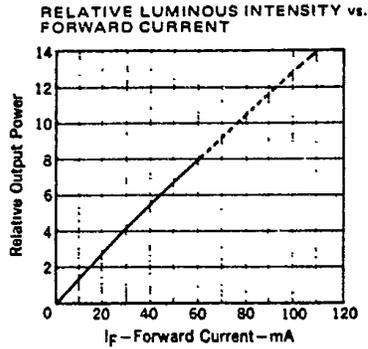
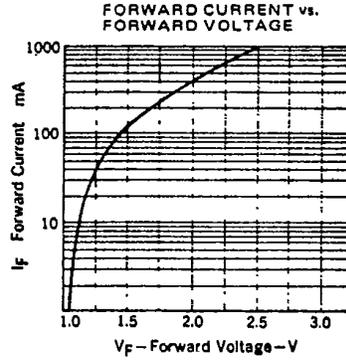
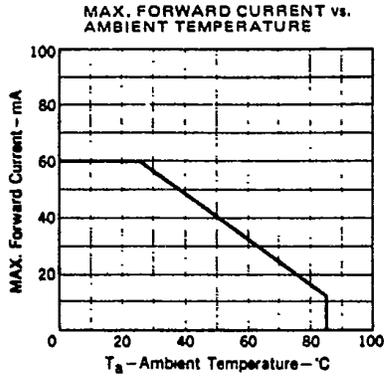
### ELECTRO-OPTICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Forward Voltage	$V_F$		1.1	1.4	V	$I_F=50\text{ mA}$
Reverse Current	$I_R$		0.01	5	$\mu\text{A}$	$V_R=5\text{ V}$
Peak Emission Wavelength	$\lambda_{peak}$		940		nm	$I_F=50\text{ mA}$
Spectral Line Half Width	$\Delta\lambda$		60		nm	$I_F=50\text{ mA}$
Output Power	$I_e$	6	11		mW/sr	$I_F=50\text{ mA}$
Light Turn-On and Turn-Off	$t_{on}, t_{off}$		1		$\mu\text{s}$	

SE310

T-41-11

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



2

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