

<u>DESCRIPTION</u>	<u>DEVICE</u>	<u>PAGE</u> <u>OF</u>
INFRARED EMITTING DIODE	KID-05AC94	<u>DATE</u> _____

■ Features

- Narrow beam angle
- Durable
- High reliability in demanding environments

■ Absolute Maximum Ratings

(Ta=25°C)

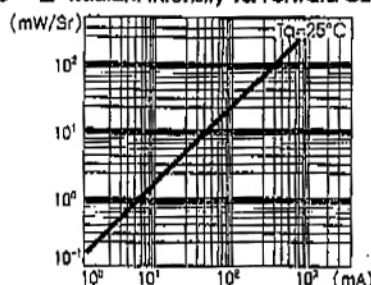
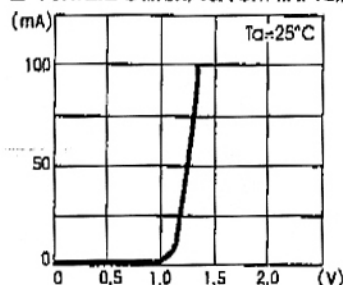
Parameter	Symbol	Rating	Unit
Forward Current	IF	100	mA
Pulse Forward Current	IFP	1	A
Reverse Voltage	VR	5	V
Power Dissipation	PD	200	mW
Operating Temperature	T _{opr}	-40 ~ +100	°C
Storage Temperature	T _{stg}	-55 ~ +125	°C

■ Electro-Optical Characteristics

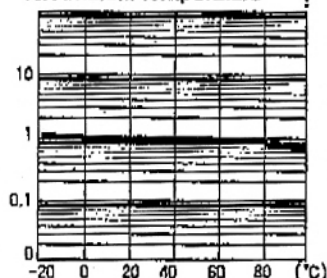
(Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Forward Voltage	VF	IF=100mA		1.35	1.7	V
Reverse Current	IR	VR=5V			10	μA
Output Power	PO	IF=100mA		15		mW/Sr
Terminal Capacitance	Ct	f=1MHz		25		pF
Angle Sensitivity at 50%	θ			±8		deg
Peak Emission Wavelength	λ _p	IF=60mA		940		nm
Spectral Bandwidth at 50%	Δλ	IF=60mA		50		nm

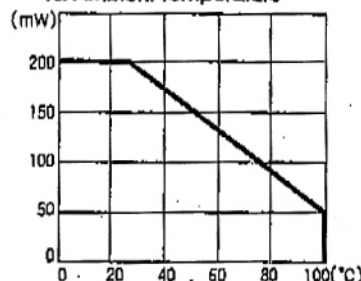
■ Forward Current vs. Forward Voltage ■ Radiant Intensity vs. Forward Current



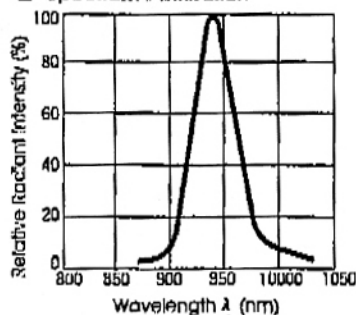
■ Relative Radiant Intensity vs. Ambient Temperature



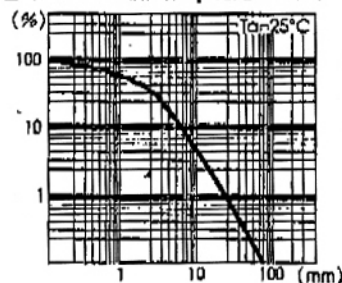
■ Power dissipation vs. Ambient Temperature



■ Spectrum Distribution



■ Radiation Intensity vs. Distance



■ Radiation Diagram

