

**CN870-55**

INFRARED LED CHIP

<Specifications>

Commodity Type and Physical Characteristics	
Material	GaAlAs/GaAlAs(DDH)
Top Side P(anode)side	Au Alloy
Bottom Side N(cathode)side	Au Alloy
Electrode Pattern	120um dia.
Chip Size	550um x 550um
Chip Thickness	150um ± 30um

Electro-Optical Characteristics[Ta=25°C]						
Item	Symbol	Condition	Minimum	Typical	Maximum	Unit
Forward Voltage	VF	IF=50mA		1.40	1.45	V
		IF=100mA		1.48	1.50	
		IF=1A*		2.4	3.0	
		IF=2A*		3.3	4.0	
Reverse Current	IR	VR=5V			10	uA
Radiated Power	PO	IF=50mA		10		mW
		IF=100mA		20		
		IF=1A*		200		
		IF=2A*		400		
Peak Wavelength	λP	IF=50mA		870		nm
Spectral Radiation Bandwidth	Δλ	IF=50mA		40		nm
Rise Time	tr	IF=50mA		15		ns
Fall Time	tf	IF=50mA		10		ns

Die shall be mounted on TO-18 gold header without resin coated.

\* Pulse Forward Current condition: Duty=1% and Pulse Width=10μs.

