

LS853B

## 1. ABSOLUTE MAXIMUM RATING (Ta=25°C)

I T E M	SYMBOL	R A T I N G S	UNIT
Forward Current (DC)	I F	8 0	mA
Forward Current (Pulse)	I F P	0.4 *1	A
Reverse Voltage	V R	5	V
Power Dissipation	P D	130	mW
Operating Temp.	T opr	-25 ~ +85	°C
Storage Temp.	T stg	-30 ~ +100	°C
Lead Soldering Temp. *2	T ls	260	°C

\*1 t w=10 μ S, t=10 m S

\*2 Time 5 Sec max, Position: Up to 3mm from the body

## 2. ELECTRICAL &amp; OPTICAL CHARACTERISTICS (Ta=25°C)

I T E M	SYMBOL	Min.	TYP.	MAX.	UNIT	CONDITION
Power Output	P O	1.8	2.5		mW	I F=50mA
Forward Voltage	V F		2.0	2.4	V	I F=50mA
Reverse Current	I R			10	μ A	V R=5V
Peak Wavelength	λ P		850		nm	I F=50mA
Spectral Line Half Width	Δ λ		35		nm	I F=50mA
Half Intensity Beam Angle	θ		±2		deg.	I F=50mA