

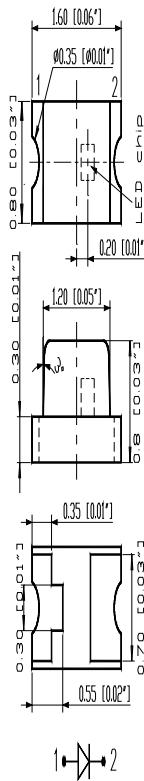
SURFACE MOUNT LED LAMPS

表面黏著型發光二極體指示燈

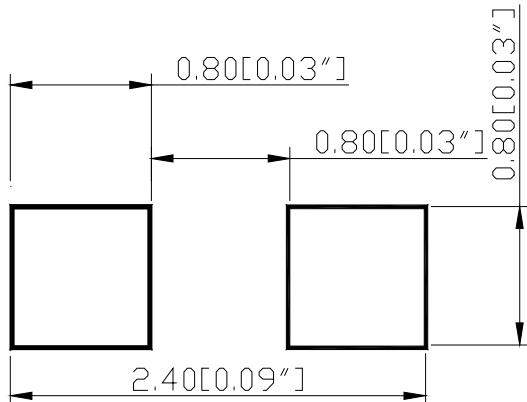
S190 Series SMD Chip LED Lamps

Part Number: S190TB4-C

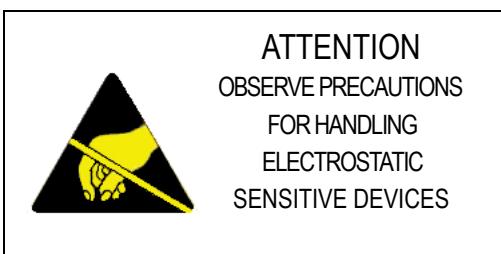
Package outlines



RECOMMEND PAD LAYOUT



ITEM	MATERIALS
Resin (mold)	Epoxy
Bonding wire	□ 25 μ m Au
Lens color	Water transparent
Printed circuit board	BT (White)
Dice	GaN
Emitted color	Blue



NOTES:

1. All dimensions are in millimeters (inches);
2. Tolerances are ± 0.1 mm (0.004inch) unless otherwise noted.

SURFACE MOUNT LED LAMPS

表面黏著型發光二極體指示燈

Part Number: S190TB4-C

Absolute maximum ratings (T_A=25°C)

Parameter	Symbol	Value	Unit
Forward current	I _f	30	mA
Reverse voltage	V _r	5	V
Power dissipation	P _d	135	mW
Operating temperature range	T _{op}	-20 ~+80	°C
Storage temperature range	T _{stg}	-20 ~+80	°C
Peak pulsing current (1/8 duty f=1kHz)	I _{fp}	125	mA

Electro-optical characteristics (T_A=25°C)

Parameter	Test Condition	Symbol	Value			Unit
			Min	Typ	Max	
Wavelength at peak emission	I _f =20mA	λ _{peak}	465	470	480	nm
Spectral half bandwidth	I _f =20mA	△λ	--	60	--	nm
Dominant wavelength	I _f =20mA	λ _{dom}	--	465	--	nm
Forward voltage	I _f =20mA	V _f	3.0	3.4	4.0	V
Luminous intensity *1	I _f =20mA	I _v	55	-	100	mcd
Viewing angle at 50% I _v	I _f =10mA	2θ _{1/2}	--	120	--	Deg
Reverse current	V _r =5V	I _r	--	--	10	μA

*1 Note: Luminous intensity tolerance is ±10%.