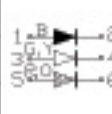


◎ SURFACE MOUNT LED LAMPS

表面黏著型發光二極體指示燈

GH-S198 Series Electro-Optical Characteristics:

Code for parts GH-XXXXX	Lighting Color	Material	V _F (V)		λ (nm)			I _v (mcd)	Internal Circuit
			Typ	Max	λ _D	λ _P	Δλ		
WPS198TS-E7E	Red	AlGaInP	2.00	2.50	630	640	20	80	
	Yellow	AlGaInP	2.00	2.50	590	595	20	80	
	Blue	GaN	3.50	4.00	465	460	30	40	
WPS198TS-E5H	Red	AlGaInP	2.00	2.50	630	640	20	80	
	Green	GaN	3.30	3.80	525	520	30	160	
	Blue	GaN	3.50	4.00	465	460	30	40	
WPS198TS-E6H	Orange	AlGaInP	2.20	2.70	624	635	20	80	
	Green	GaN	3.30	3.80	525	520	30	160	
	Blue	GaN	3.50	4.00	465	460	30	40	



◎ Package Outline Drawing:

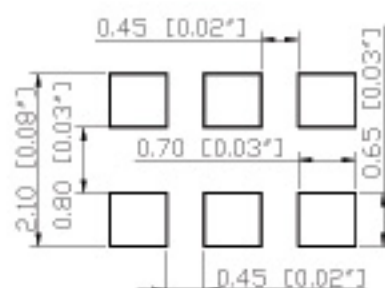


- NOTES: 1. All dimensions are in millimeters (inches);
2. Tolerances are $\pm 0.1\text{mm}$ (0.004inch) unless otherwise noted;
3. Resin color: water clear.

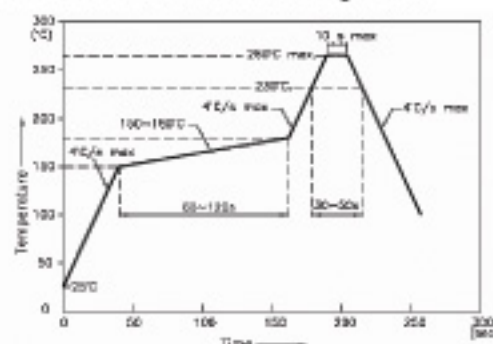
★ Soldering iron

Basic spec is $\leq 5\text{sec}$ when 260°C . If temperature is higher, time should be shorter ($+10^\circ\text{C} \rightarrow -1\text{sec}$). Power dissipation of iron should be smaller than 15W , and temperatures should be controllable. Surface temperature of the device should be under 230°C .

★ Recommended Soldering Pattern For Reflow Solder



★ Recommended Reflow Soldering Profile.



◎ Absolute Maximum Ratings:

Series	I _F (mA)	*I _{FP} (mA)	V _R (V)	T _{OP} (°C)	T _{ST} (°C)
GH-S198 Series	30	120	5	-40~+80	-40~+85

★Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width