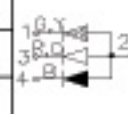
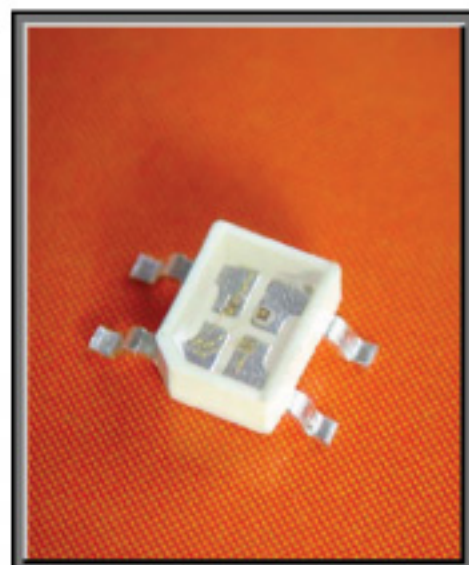


REFLECTOR COATING TYPE HIGH-PERFORMANCE LEDS

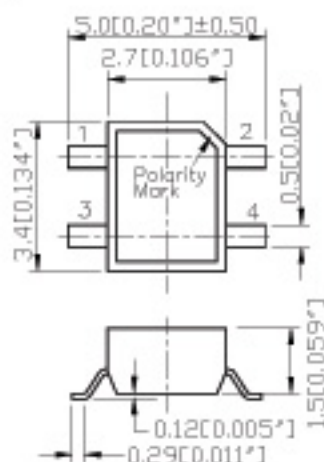
反射蓋灌注型高效率發光二極體

GH-2028 Full-Color 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		
WDE728TZ-WBE	Red	AlGaInP	2.00	2.50	630	640	20	95	
	Yellow	AlGaInP	2.00	2.50	590	595	20	95	
	Blue	GaInN	3.50	4.00	465	460	30	50	
WDE528TZ-WBH	Red	AlGaInP	2.00	2.50	630	640	20	95	
	Green	GaInN	3.30	3.80	525	520	30	190	
	Blue	GaInN	3.50	4.00	465	460	30	50	
WDE628TZ-WBH	Orange	AlGaInP	2.20	2.70	624	635	20	95	
	Green	GaInN	3.30	3.80	525	520	30	190	
	Blue	GaInN	3.50	4.00	465	460	30	50	



Package Outline Drawing:

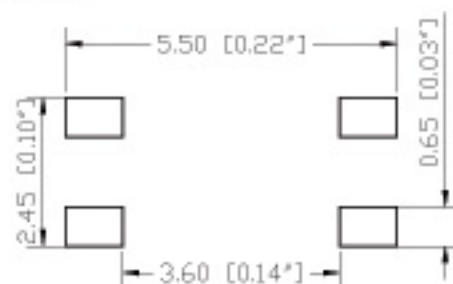


NOTES: 1. All dimensions are in millimeters (inches);
2. Tolerances are ±0.2mm (0.008inch) unless otherwise noted.

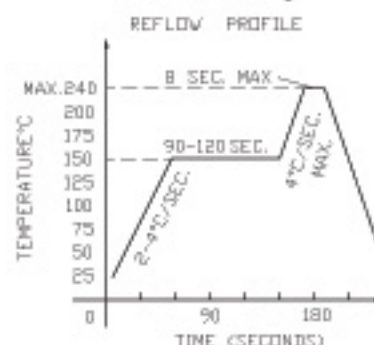
* Soldering iron

Basic spec is ≤ 5sec when 260°C. If temperature is higher, time should be shorter (+10°C → -1sec). 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 Soldering



* Recommended Reflow Soldering Profile.



Absolute Maximum Ratings:

Series	I _F (mA)	*I _{FP} (mA)	V _R (V)	T _{OP} (°C)	T _{ST} (°C)
GH-2028 Full-Color Series	30	120	5	-40~+80	-40~+85

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