

◎ MINI TYPE LED LAMPS

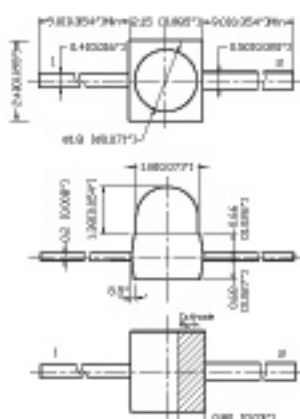
小型化發光二極體指示燈

GH-2033-01 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	Typ	
RQ0933TP-01E	Red	AlGaInP	2.0	2.5	630	640	20	1120	
OW0933TP-01E	Orange	AlGaInP	2.2	2.7	624	635	20	2400	
YU0933TP-01E	Yellow	AlGaInP	2.0	2.5	590	595	20	1550	
GB0933TP-01J	Green	AlGaInP	2.0	2.5	574	575	20	525	
G31433TP-01H	Green	GaInN	3.3	3.8	525	520	30	950(min)	
BL1433TP-01H	Blue	GaInN	3.50	4.00	465	460	30	200(min)	
WV1433TP-01H	White	GaInN	3.50	4.00	X=0.22~0.38 Y=0.22~0.35			60(min)	



◎ Package Outline Drawing:

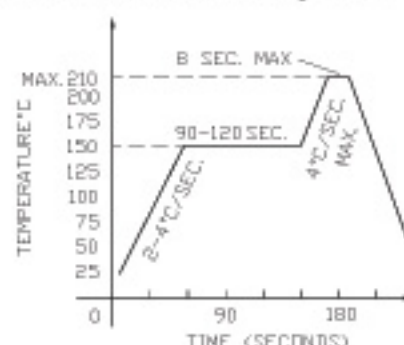


- NOTES: 1. All dimensions are in millimeters (inches);
2. Tolerances are ±0.2mm (0.008inch) unless otherwise noted;
3. Resin color: water clear.

★ 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 Reflow Soldering Profile.



◎ Absolute Maximum Ratings:

Series	I _F (mA)	*I _{FP} (mA)	V _R (V)	T _{OP} (°C)	T _{ST} (°C)
GH-2033-01 Series	30	120	5	-40~+80	-40~+85

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