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Rev: A Date: 2003/11/01

ETG – 2GW Series Electro-Optical Characteristics:

Part Number	Lighting Color	Material	V _F (V)		λ (nm)			Chip I _v (mcd)	Internal Circuit
			typ	max	λ _D	λ _P	Δλ		
ETG-2GW660-20	Red	GaAlAs	1.80	2.30	643	660	25	19	
ETG-2GW640-20	Red	AlGaInP	1.90	2.40	631	640	23	52	
ETG-2GW630-20	Hyper Red	AlGaInP	1.90	2.40	624	635	25	67	
ETG-2GW620-20	Orange	AlGaInP	1.90	2.40	615	620	18	75	
ETG-2GW610-20	Amber	AlGaInP	1.90	2.40	605	610	25	52	
ETG-2GW600-20	Amber	AlGaInP	1.90	2.40	595	600	20	75	
ETG-2GW590-20	Yellow	AlGaInP	2.00	2.50	593	595	32	57	
ETG-2GW575-20	Green	AlGaInP	2.10	2.60	578	575	18	37	
ETG-2GW525-20	Green	GaN/SiC	3.20	3.80	527	525	40	120	
ETG-2GW505-20	Aqua	GaN/SiC	3.30	4.00	509	505	37	120	
ETG-2GW470-20	Blue	GaN/SiC	3.40	4.00	465	460	68	55	
ETG-2GW460-20	Blue	GaN/SiC	4.00	4.50	465	430	60	45	



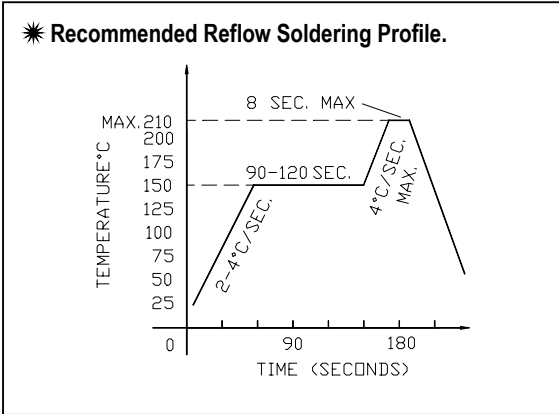
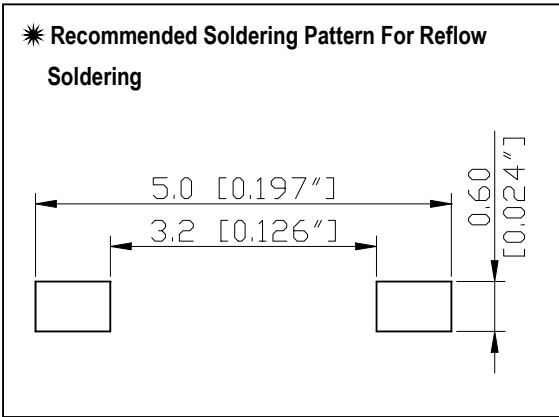
Ⓢ Package Outline Drawing:

NOTES:

- All dimensions are in millimeters (inches);
- Tolerances are ±0.2mm (0.008inch) unless otherwise noted;
- 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.



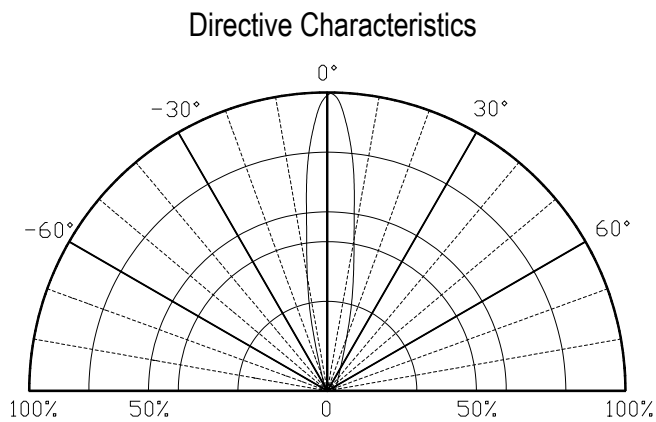
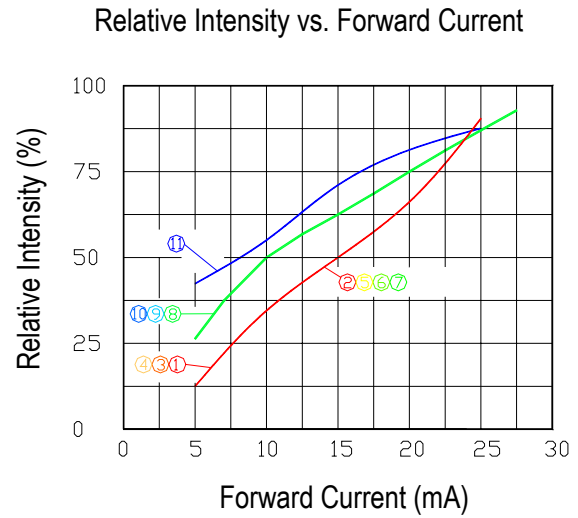
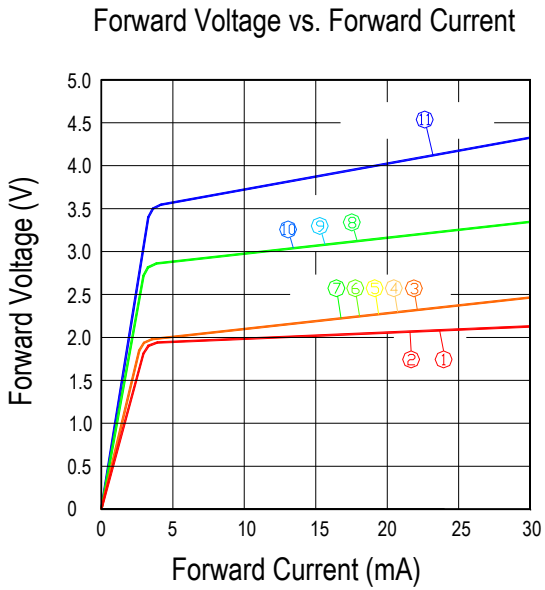
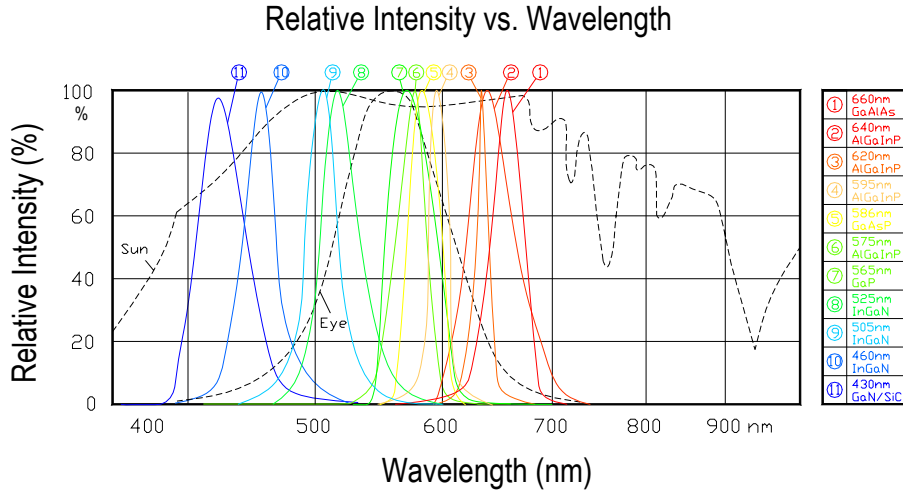
Ⓢ Absolute Maximum Ratings:

Series	I _F (mA)	*I _{FP} (mA)	V _R (V)	T _{OP} (°C)	T _{ST} (°C)
ETG-2GW Series	30	120	5	-20~+80	-20~+100

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

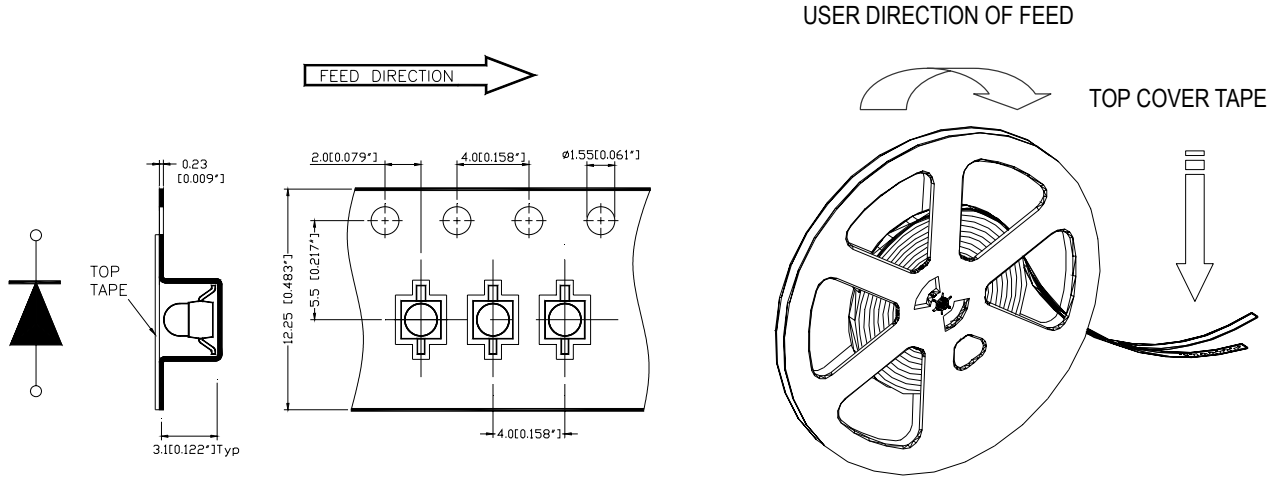
* Optical Characteristic Curves Of ETG-2GW Series

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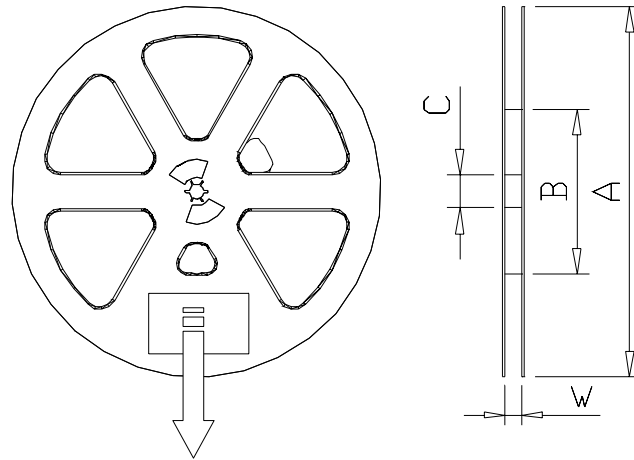


* Tape And Reel Of ETG-2GW Series

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Dimensions per ANSI/EIA Standard RS-481 All dimensions are in millimeters (inches).	
A	330[13]
B	100[3.94]
C	13 [0.51]
W	12.5[0.50]
Thickness of top cover tape 0.1[0.004"] MAX	



PART NO.	
LOT NO.	
QUANTITY	
DATE	
DATA	

NOTES:

1. Empty component pockets are sealed with top cover tape;
2. Minimum leader length at both ends of the tape is 450 mm;
3. The maximum number of missing lamps is two;
4. The cathode is oriented towards the tape sprocket hole in accordance with ANSI/EIA RS-481 specifications.
5. 5000pcs/Reel