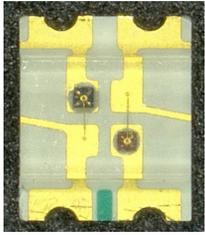


## APW-MW2-1210-010



### FEATURES

- Low Cost
- 660 nm  $\pm$  3nm
- 940 nm  $\pm$  10 nm
- Optimal Peak Wavelength Binning
- Two Drive Lines

### DESCRIPTION

The **APW-MW2-1210-010** is a two drive line dual emitter oximeter component. The 660nm and 940nm GaAIAs infrared emitters are mounted in a “glob top” low cost ceramic SMT 1210 package.

### APPLICATIONS

- Oximeter Probes
- Finger Clamps
- Reusable Probes

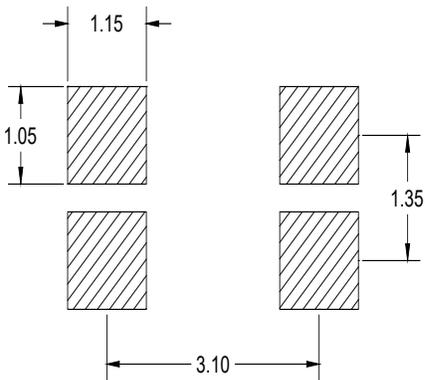
### > Absolute Maximum Ratings

Part No.	Continuous Forward Current [mA]	Peak Forward Current [mA]	Power Dissipation [mW]	Operating Temperature [C]	Storage Temperature [C]	Package
APW-MW2-1210-010	30	200	250	-40 to +80	-40 to +80	1210

> Electrical and Optical Characteristics

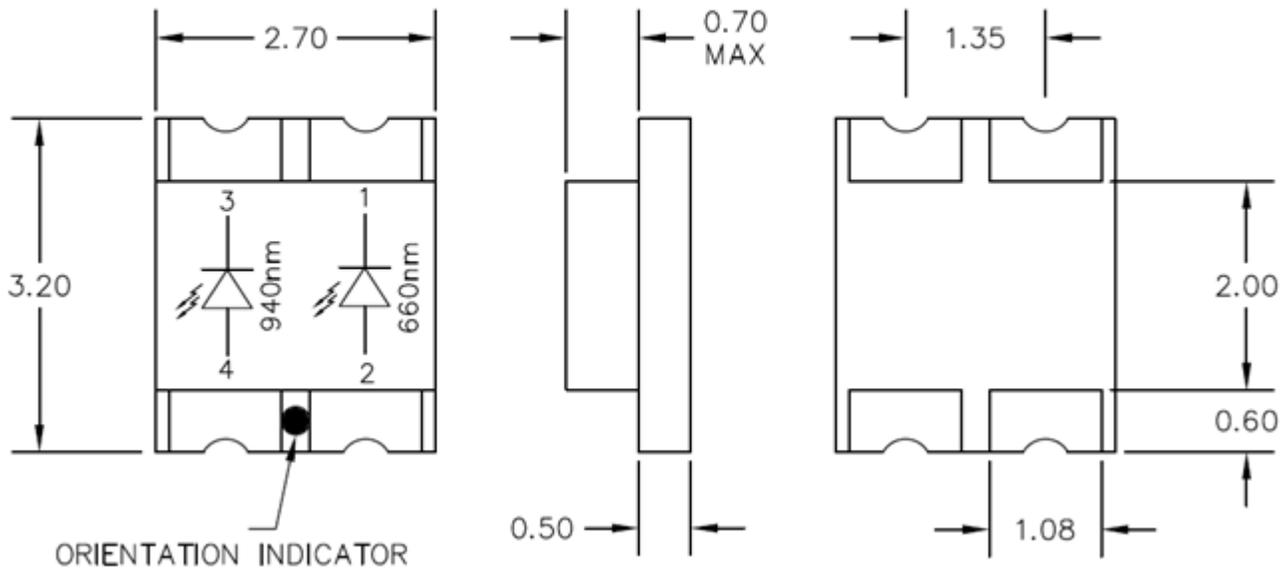
<b>660nm Typical Characteristics (T=23°C unless specified)</b>						
Parameter	Test Conditions	Symbol	Min	Typical	Max	Unit
Breakdown Voltage	$I_f = 10 \mu\text{A}$	$V_{BD}$	5	-	-	V
Radiant Flux	$I_f = 20 \text{mA}$	$\Phi_e$	-	9.5	-	mW
Luminous Intensity	$I_f = 20 \text{mA}$	$I_V$	-	180	-	mcd
Forward Voltage	$I_f = 20 \text{mA}$	$V_F$	-	1.94	2.30	V
Peak Wavelength	$I_f = 20 \text{mA}$	$\lambda_p$	657	660	663	nm
Rise Time (50Ω load)	$I_f = 20 \text{mA}$	$T_R$	-	15	-	ns
Fall Time	$I_f = 20 \text{mA}$	$T_F$	-	15	-	ns
Spectral Halfwidth	$I_f = 20 \text{mA}$	$\Delta\lambda$	-	20	-	nm
<b>940 nm Typical Characteristics (T=23°C unless specified)</b>						
Parameter	Test Conditions	Symbol	Min	Typical	Max	Unit
Breakdown Voltage	$I_f = 10 \mu\text{A}$	$V_{BD}$	5	-	-	V
Radiant Flux	$I_f = 20 \text{mA}$	$\Phi_e$	-	5	-	mW
Luminous Intensity	$I_f = 20 \text{mA}$	$I_V$	-	-	-	mcd
Forward Voltage	$I_f = 20 \text{mA}$	$V_F$	-	1.5	1.65	V
Peak Wavelength	$I_f = 20 \text{mA}$	$\lambda_p$	930	940	950	nm
Rise Time (50Ω load)	$I_f = 20 \text{mA}$	$T_R$	-	15	-	ns
Fall Time	$I_f = 20 \text{mA}$	$T_F$	-	15	-	ns
Spectral Halfwidth	$I_f = 20 \text{mA}$	$\Delta\lambda$	-	50	-	nm

> Suggested PCB Layout

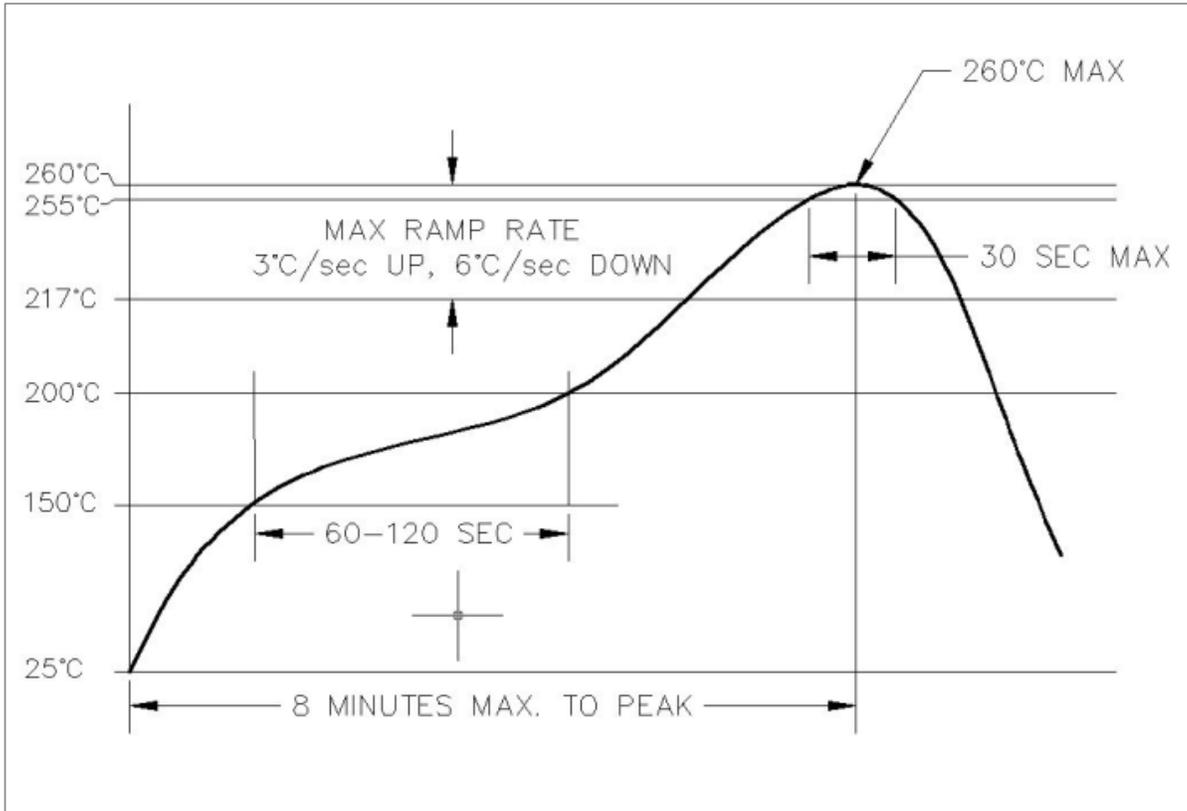


> 1210 Package [AWW-MW2-1210-010]

PACKAGING DIMENSIONS,mm



>Soldering Conditions



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## MATERIALS SAFETY

*This product is free of conflict minerals and meets REACH compliance. Please see website for reports.*