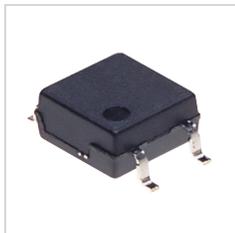




## AQY210LS | PhotoMOS GU SOP 1 Form A Current Limiting



※Photo may vary from actual product.



Product Number	AQY210LS
Part Number	AQY210LS
Details	Surface-mount terminal, Tube packing style, Load voltage:350 V
Product name	PhotoMOS GU SOP 1 Form A Current Limiting
Features	Miniature SOP4-pin type with current limiting

### Spec Detail

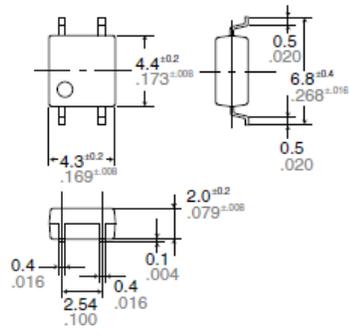
As of November 19, 2019

Specifications and design of the products are subject to change without notice for the product improvement.

Item	Specifications
Product Number	AQY210LS
Part Number	AQY210LS
Product name	GU SOP 1 Form A Current Limiting
Type	GU
Package	SOP4
Voltage type	AC/DC
LED forward current [ $I_F$ ]	50 mA
LED reverse voltage [ $V_R$ ]	5 V
Peak forward current [ $I_{FP}$ ]	1 A
Power dissipation [ $P_{in}$ ]	75 mW
Load voltage [ $V_L$ ]	350 V
Load current	120 mA
Continuous load current [ $I_L$ ]	0.12 A
Power dissipation [ $P_{out}$ ]	400 mW
Total power dissipation [ $P_t$ ]	450 mW
I/O isolation voltage [ $V_{iso}$ ]	1,500 Vrms
Ambient temperature: Operating [ $T_{opr}$ ]	-40 to +85°C -40 to +185°F
Ambient temperature: Storage [ $T_{stg}$ ]	-40 to +100°C -40 to +212°F
LED operate current (Typical)	1.2 mA
LED operate current (Maximum)	3 mA

LED turn off current (Minimum)	0.4 mA
LED turn off current (Typical)	1.1 mA
LED dropout voltage (Typical) [ $V_F$ ]	1.25 V
LED dropout voltage (Maximum) [ $V_F$ ]	1.5 V
On resistance (Typical) [ $R_{on}$ ]	20 ohm
ON resistance (Maximum) [ $R_{on}$ ]	25 ohm
Off state leakage current (Maximum) [ $I_{Leak}$ ]	1 $\mu$ A
Over current protection	With current limiting
Current limit (Typical)	0.18 A
Turn on time (Typical)	0.5 ms
Turn on time (Maximum)	2 ms
Turn off time (Typical)	0.08 ms
Turn off time (Maximum)	1 ms
I/O capacitance (Typical) [ $C_{iso}$ ]	0.8 pF
I/O capacitance (Maximum) [ $C_{iso}$ ]	1.5 pF
Initial I/O isolation resistance (Minimum) [ $R_{iso}$ ]	1,000 M ohm
[Recommended operating conditions] LED current [ $I_F$ ]	Min.: 5 mA, Max.: 30 mA
[Recommended operating conditions] Load voltage [ $V_L$ ]	Max.: 280 V
[Recommended operating conditions] Continuous load current [ $I_L$ ]	Max.: 0.12 A
Terminal shape	Surface-mount terminal
Contact arrangement	1 Form A
Packing style	Tube packing style

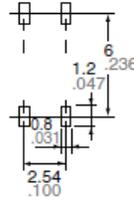
External dimensions



Terminal thickness = 0.15 .006  
 mm inch General tolerance: ±0.1 ±.004

Recommended mounting pad (Top view)

### Recommended mounting pad (Top view)



mm inch

Tolerance:  $\pm 0.1 \pm .004$

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