

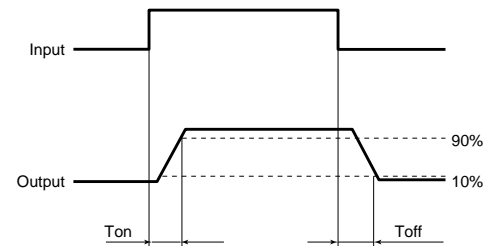
GU-E PhotoMOS (AQY210EH)

2. Electrical characteristics (Ambient temperature: 25°C 77°F)

Item		Symbol	AQY211EH(A)	AQY212EH(A)	AQY210EH(A)	AQY214EH(A)	AQY216EH(A)	Condition
Input	LED operate current	Typical	1.2mA					$I_L = \text{Max.}$
		Maximum	3.0mA					
	LED turn off current	Minimum	0.4mA					$I_L = \text{Max.}$
		Typical	1.1mA					
LED dropout voltage	Typical	1.25 (1.14 V at $I_F = 5\text{mA}$)					$I_F = 50\text{mA}$	
	Maximum	1.5V						
Output	On resistance	Typical	0.25Ω	0.85Ω	18Ω	26Ω	52Ω	$I_F = 5\text{mA}$ $I_L = \text{Max.}$ Within 1 s on time
		Maximum	0.5Ω	2.5Ω	25Ω	35Ω	120Ω	
	Off state leakage current	Maximum	1μA					$I_F = 0\text{mA}$ $V_L = \text{Max.}$
Transfer characteristics	Turn on time*	Typical	1.5ms	1ms	0.5ms		$I_F = 5\text{mA}$ $I_L = \text{Max.}$	
		Maximum	5ms	4ms	2.0ms			
	Turn off time*	Typical	0.1ms	0.05ms	0.08ms	0.04ms	$I_F = 5\text{mA}$ $I_L = \text{Max.}$	
		Maximum	1.0ms					
	I/O capacitance	Typical	0.8pF					$f = 1\text{MHz}$ $V_B = 0\text{V}$
Maximum		1.5pF						
Initial I/O isolation resistance	Minimum	1,000MΩ					500V DC	

Note: Recommendable LED forward current $I_F = 5$ to 10mA.

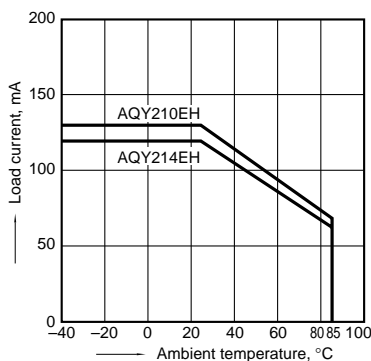
*Turn on/Turn off time



REFERENCE DATA

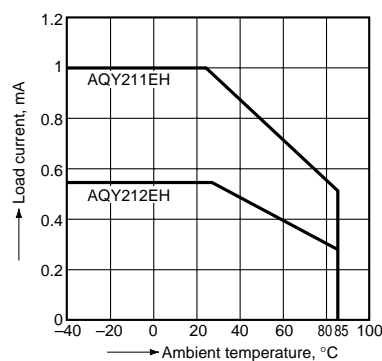
1-(1). Load current vs. ambient temperature characteristics

Allowable ambient temperature: -40°C to +85°C
-40°F to +185°F



1-(2). Load current vs. ambient temperature characteristics

Allowable ambient temperature: -40°C to +85°C
-40°F to +185°F



1-(3). Load current vs. ambient temperature characteristics

Allowable ambient temperature: -40°C to +85°C
-40°F to +185°F

