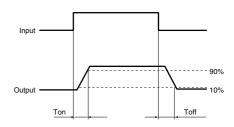
2. Electrical characteristics (Ambient temperature: 25°C 77°F)

Item			Symbol	AQW254(A)	Condition	
Input	LED operate current	Typical	l Fon	0.9 mA	IL= Max.	
		Maximum	IFon	3 mA		
	LED turn off current	Minimum		0.4 mA	IL= Max.	
		Typical	I Foff	0.8 mA		
	LED dropout voltage	Typical	VF	1.25 V (1.14 V at I _F = 5 mA)	I _F = 50 mA	
		Maximum] VF	1.5 V	IF = 50 MA	
Output	On resistance	Typical	Ron	10.2 Ω	I _F = 5 mA I _L = Max.	
		Maximum	H on	16 Ω	Within 1 s	
	Off state leakage current	Maximum	ILeak	1 μΑ	I _F = 0 mA V _L = Max.	
Transfer characteristics	Turn on time*	Typical	Ton	0.8 ms	I _F = 5 mA I _L = Max.	
		Maximum	lon	2 ms		
	Turn off time*	Typical	Toff	0.04 ms	I _F = 5 mA	
		Maximum	loff	0.2 ms	I∟ = Max.	
	I/O capacitance	Typical		0.8 pF	f = 1 MHz	
		Maximum	Ciso	1.5 pF	V _B = 0 V	
	Initial I/O isolation resistance	Minimum	Riso	1,000 ΜΩ	500 V DC	

*Turn on/Turn off time



3. Recommended operating conditions (Ambient temperature: 25°C 77°F)

Please use under recommended operating conditions to obtain expected characteristics.

Item		Symbol	Number of used channels	Min.	Max.	Unit
LED current		lF		5	30	mA
AQW254(A)	Load voltage (Peak AC)	VL		_	320	V
	Continuous load current	lı.	1ch 2ch	_	0.16 0.12	Α

■ These products are not designed for automotive use.

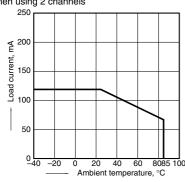
If you are considering to use these products for automotive applications, please contact your local Panasonic Corporation technical representative.

REFERENCE DATA

 Load current vs. ambient temperature characteristics

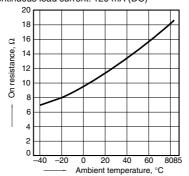
Allowable ambient temperature: -40 to +85°C

When using 2 channels



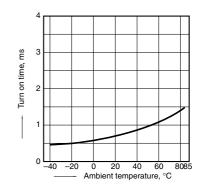
2. On resistance vs. ambient temperature characteristics

Measured portion: between terminals 5 and 6, 7 and 8; LED current: 5 mA; Load voltage: 400 V (DC); Continuous load current: 120 mA (DC)



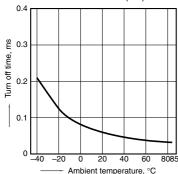
3. Turn on time vs. ambient temperature characteristics

LED current: 5 mA; Load voltage: 400 V (DC); Continuous load current: 120 mA (DC)

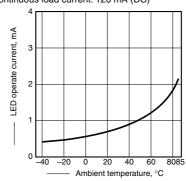


4. Turn off time vs. ambient temperature characteristics

LED current: 5 mA; Load voltage: 400 V (DC); Continuous load current: 120 mA (DC)

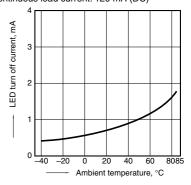


5. LED operate current vs. ambient temperature characteristics Load voltage: 400 V (DC); Continuous load current: 120 mA (DC)

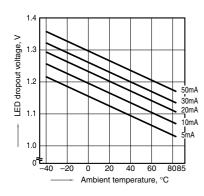


6. LED turn off current vs. ambient temperature characteristics

Load voltage: 400 V (DC); Continuous load current: 120 mA (DC)

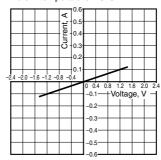


7. LED dropout voltage vs. ambient temperature characteristics LED current: 5 to 50 mA



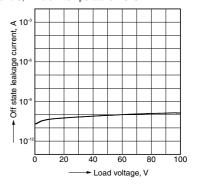
Current vs. voltage characteristics of output at MOS portion

Measured portion: between terminals 5 and 6, 7 and 8; Ambient temperature: 25°C 77°F



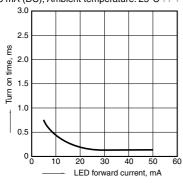
Off state leakage current vs. load voltage characteristics

Measured portion: between terminals 5 and 6, 7 and 8; Ambient temperature: 25°C 77°F



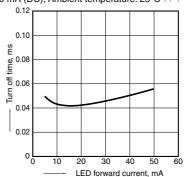
10. Turn on time vs. LED forward current characteristics

Measured portion: between terminals 5 and 6, 7 and 8; Load voltage: 400 V (DC); Continuous load current: 120 mA (DC); Ambient temperature: 25°C 77°F



11. Turn off time vs. LED forward current characteristics

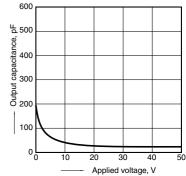
Measured portion: between terminals 5 and 6, 7 and 8; Load voltage: 400 V (DC); Continuous load current: 120 mA (DC); Ambient temperature: 25°C 77°F



12. Output capacitance vs. applied voltage characteristics

Measured portion: between terminals 5 and 6, 7 and 8; Frequency: 1 MHz;

Ambient temperature: 25°C 77°F



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^{*}Recognized in Japan, the United States, all member states of European Union and other countries.