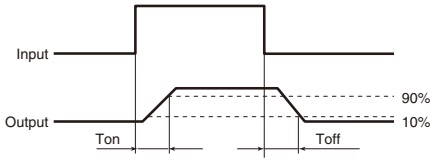
To Be Discontinued
Last time buy: September 30, 2019

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

Item			Symbol	AQZ262	AQZ264	Condition
Input	LED operate current	Typical	I_{Fon}	1.0 mA		I_L = 100 mA V_L = 10 V
		Maximum		3.0 mA		
	LED turn off current	Minimum	I_{Foff}	0.4 mA		I_L = 100 mA V_L = 10 V
		Typical		0.9 mA		
	LED dropout voltage	Typical	V_F	1.25 V (I_F = 10 mA)		I_F = 50 mA
		Maximum		1.5 V		
Output	On resistance	Typical	R_{on}	0.036 Ω	1.0 Ω	I_F = 10 mA I_L = max. Within 1 s
		Maximum		0.05 Ω	1.4 Ω	
	Off state leakage current	Maximum	I_{Leak}	10 μA		I_F = 0 mA V_L = max.
Transfer characteristics	Turn on time*	Typical	T_{on}	5 ms	4 ms	I_F = 10 mA I_L = 100 mA V_L = 10 V
		Maximum		10 ms		
	Turn off time*	Typical	T_{off}	0.32 ms	0.14 ms	I_F = 10 mA I_L = 100 mA V_L = 10 V
		Maximum		3.0 ms		
	I/O capacitance	Typical	C_{iso}	2.0 pF		f = 1 MHz V_B = 0 V
		Maximum		4.0 pF		
	Initial I/O isolation resistance	Minimum	R_{iso}	1,000 MΩ		500 V DC
	Max. operating frequency	Maximum	—	0.5 cps		I_F = 10 mA Duty factor = 50% I_L = Max., V_L = Max.

*Turn on/off time



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

Please use under recommended operating conditions to obtain expected characteristics.

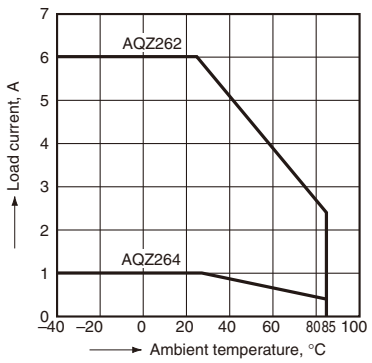
Item		Symbol	Min.	Max.	Unit
LED current		I_F	10	30	mA
AQZ262	Load voltage (Peak AC)	V_L	—	48	V
	Continuous load current	I_L	—	6.0	A
AQZ264	Load voltage (Peak AC)	V_L	—	320	V
	Continuous load current	I_L	—	1.0	A

■ **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

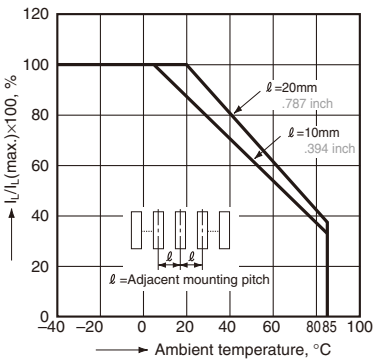
1. Load current vs. ambient temperature characteristics

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



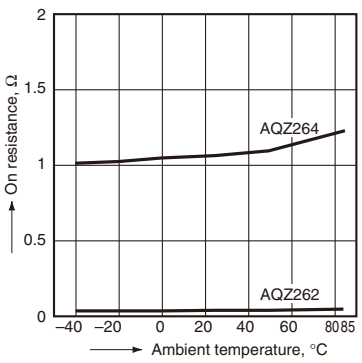
2. Load current vs. ambient temperature characteristics in adjacent mounting

I_L: Load current;
I_L (max.): Maximum continuous load current



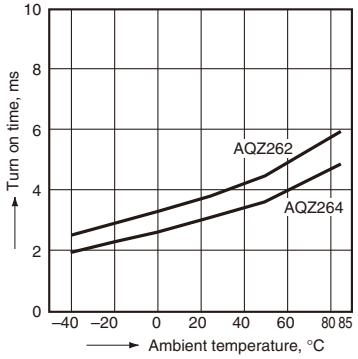
3. On resistance vs. ambient temperature characteristics

LED current: 10 mA;
Continuous load current: 6A (DC)(AQZ262)
1A (DC)(AQZ264)



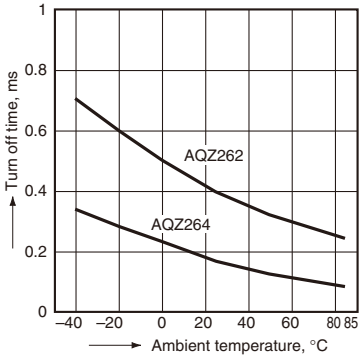
4. Turn on time vs. ambient temperature characteristics

LED current: 10 mA; Load voltage: 10 V (DC);
Continuous load current: 100 mA (DC)



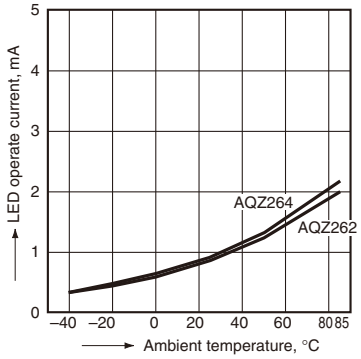
5. Turn off time vs. ambient temperature characteristics

LED current: 10 mA; Load voltage: 10 V (DC);
Continuous load current: 100 mA (DC)



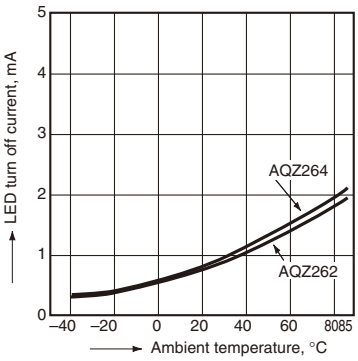
6. LED operate vs. ambient temperature characteristics

Load voltage: 10 V (DC);
Continuous load current: 100 mA (DC)



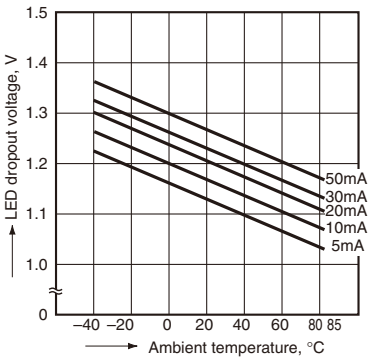
7. LED turn off current vs. ambient temperature characteristics

Load voltage: 10 V (DC);
Continuous load current: 100 mA (DC)



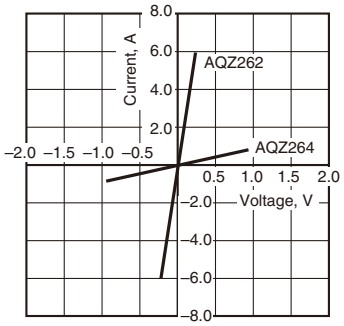
8. LED dropout voltage vs. ambient temperature characteristics

Sample: all types; LED current: 5 to 50 mA



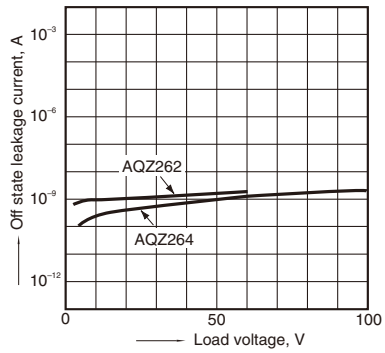
9. Current vs. voltage characteristics of output at MOS portion

Ambient temperature: 25°C 77°F



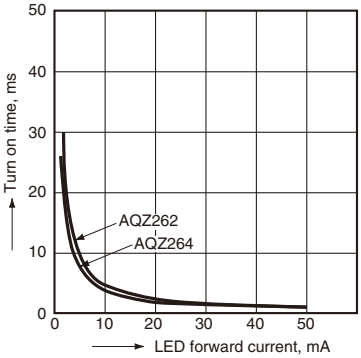
10. Off state leakage current vs. load voltage characteristics

Ambient temperature: 25°C 77°F



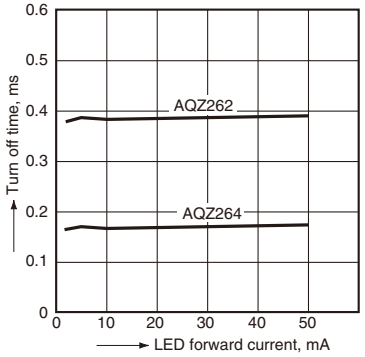
11. Turn on time vs. LED forward current characteristics

Load voltage: 10 V (DC); Continuous load current: 100 mA (DC); Ambient temperature: 25°C 77°F



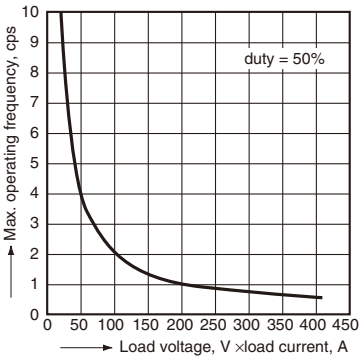
12. Turn off time vs. LED forward current characteristics

Load voltage: 10 V (DC); Continuous load current: 100 mA (DC); Ambient temperature: 25°C 77°F



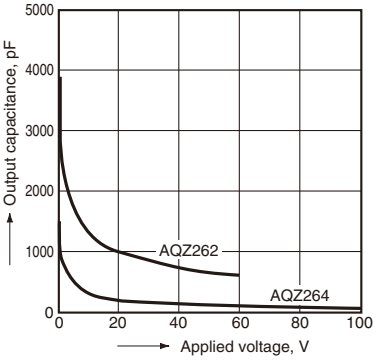
13. Max. operating frequency vs. load voltage/ current characteristics

LED current: 10 mA; Ambient temperature: 25°C 77°F



14. Output capacitance vs. applied voltage characteristics

Frequency: 10 KHz; Ambient temperature: 25°C 77°F



Please contact .....

Panasonic Corporation
Electromechanical Control Business Division
■ 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8506, Japan
industrial.panasonic.com/ac/e/

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