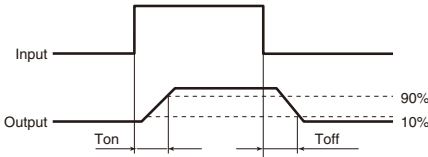


2. Electrical characteristics (Ambient temperature: 25°C 77°F)

Item			Symbol	AQZ262	AQZ264	Condition
Input	LED operate current	Typical	I _{Fon}	1.0 mA		I _F = 100 mA
		Maximum		3.0 mA		V _L = 10 V
	LED turn off current	Minimum	I _{Foff}	0.4 mA		I _L = 100 mA
		Typical		0.9 mA		V _L = 10 V
	LED dropout voltage	Typical	V _F	1.25 V (1.16 V at 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
		Maximum		0.05 Ω	1.4 Ω	I _L = max. Within 1 s
	Off state leakage current	Maximum	I _{LLeak}	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
		Maximum		10 ms		I _L = 100 mA V _L = 10 V
	Turn off time*	Typical	T _{off}	0.32 ms	0.14 ms	I _F = 10 mA
		Maximum		3.0 ms		I _L = 100 mA V _L = 10 V
	I/O capacitance	Typical	C _{iso}	2.0 pF		f = 1 MHz
		Maximum		4.0 pF		V _B = 0 V
	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

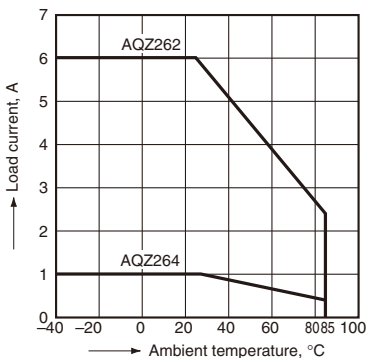
■ These products are not designed for automotive use.

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

REFERENCE DATA

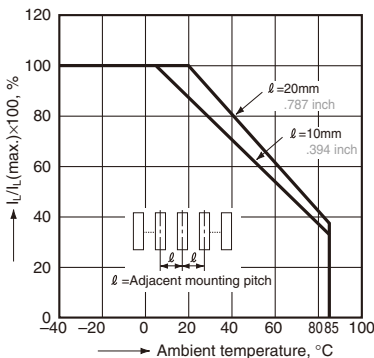
1. Load current vs. ambient temperature characteristics

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



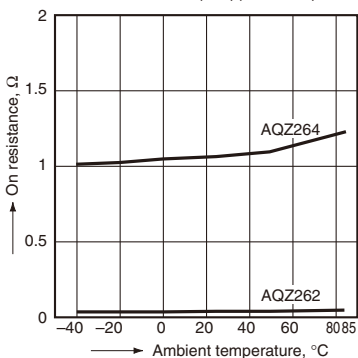
2. Load current vs. ambient temperature characteristics in adjacent mounting

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



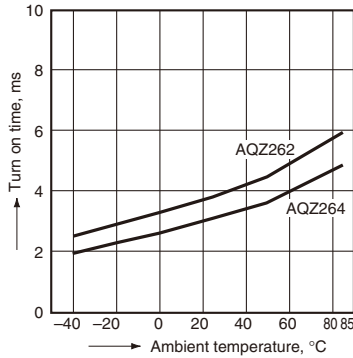
3. On resistance vs. ambient temperature characteristics

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



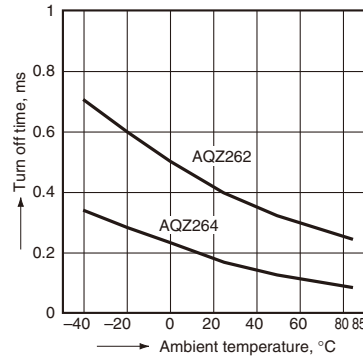
4. Turn on time vs. ambient temperature characteristics

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



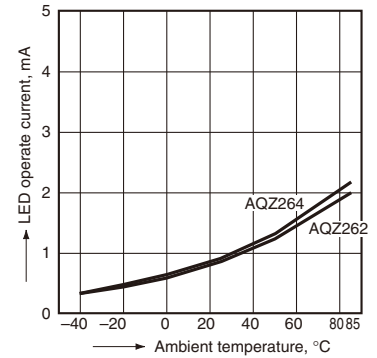
5. Turn off time vs. ambient temperature characteristics

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



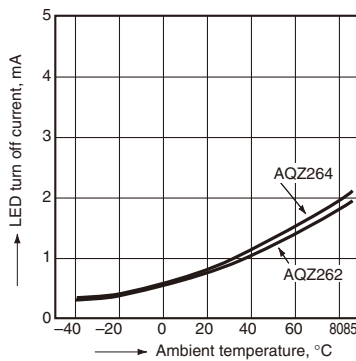
6. LED operate vs. ambient temperature characteristics

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



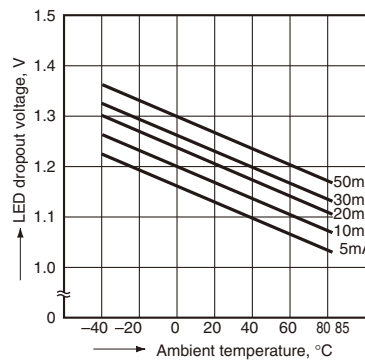
7. LED turn off current vs. ambient temperature characteristics

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



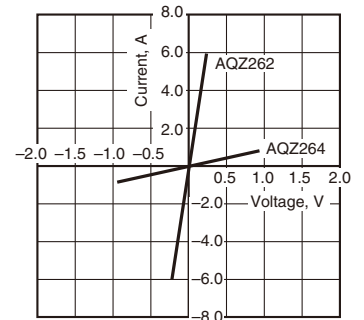
8. LED dropout voltage vs. ambient temperature characteristics

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



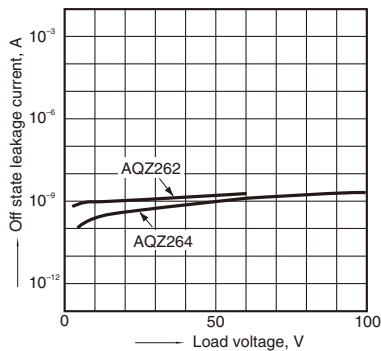
9. Current vs. voltage characteristics of output at MOS portion

Ambient temperature: 25°C 77°F



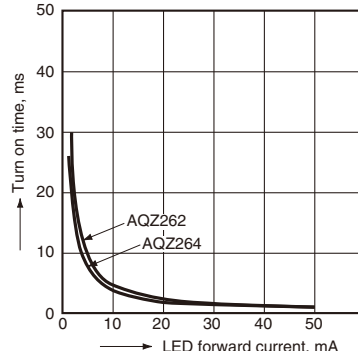
10. Off state leakage current vs. load voltage characteristics

Ambient temperature: 25°C 77°F



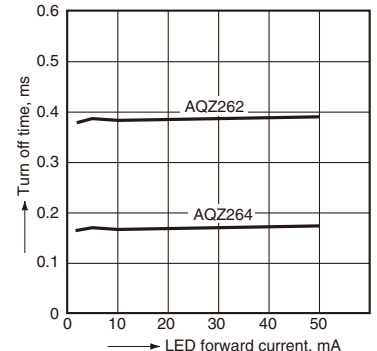
11. Turn on time vs. LED forward current characteristics

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



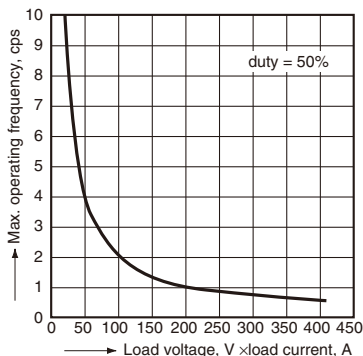
12. Turn off time vs. LED forward current characteristics

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



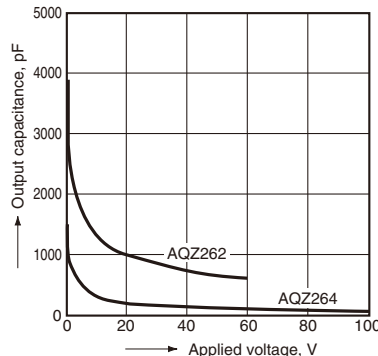
13. Max. operating frequency vs. load voltage/current characteristics

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



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