

Characteristics

($T_A = 25^\circ\text{C}$)

Description	Symbol	Min.	Typ.	Max.	Unit	Test Condition	
Emitter (Input)							
Forward Voltage	V_F		1.8	2.0	V	$I_F = 10\text{ mA}$	
Operation Input Current	I_{FON}			5	mA	$V_L = \pm 20\text{ V}$, $I_L = 100\text{ mA}$, $t = 10\text{ ms}$	
Recovery Input Current	I_{FOFF}	0.2			mA	$V_L = \pm 20\text{ V}$, $I_L = < 5\ \mu\text{A}$	
Detector (output)							
Output Breakdown Voltage	V_B	350			V	$I_B = 50\ \mu\text{A}$	
Output Off-State Leakage	$I_{T(OFF)}$		0.2	1	μA	$V_T = 100\text{ V}$, $I_F = 0\text{ mA}$	
I/O Capacitance	C_{ISO}		6		pF	$I_F = 0$, $f = 1\text{ MHz}$	
ON Resistance	Con- nection	A	R_{ON}	20	30	Ω	$I_L = 100\text{ mA}$, $I_F = 10\text{ mA}$
		B		10	15		
		C		5	7.5		
Turn-on Time	T_{ON}		0.3	1.0	ms	$I_F = 10\text{ mA}$, $V_L = \pm 20\text{ V}$	
Turn-off Time	T_{OFF}		0.7	1.5	ms	$t = 10\text{ ms}$, $I_L = \pm 100\text{ mA}$	

Mos Relay Schematic and Wiring Diagrams

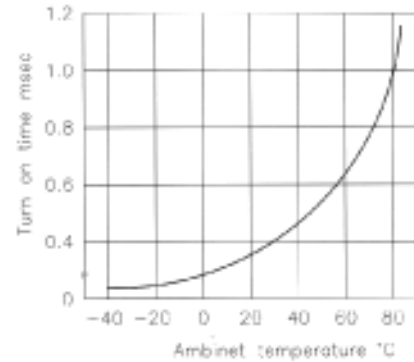
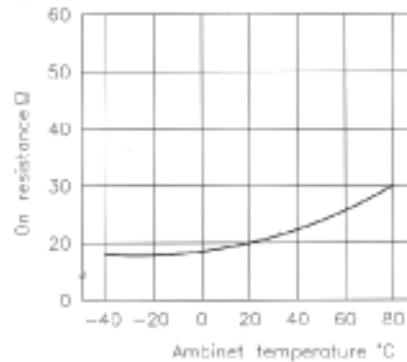
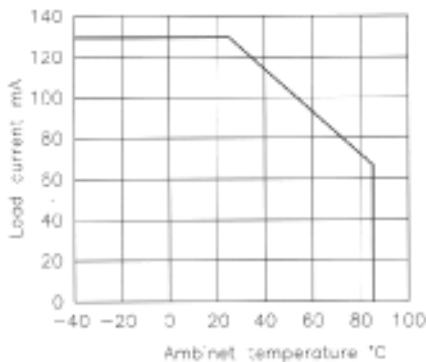
Type	Schematic	Output configuration	Load	Con- nection	Wiring diagram
AQV210S		1a	AC/DC	A	
			DC	B	
			DC	C	

DATA CURVE

Load current vs. ambient temperature
Allowable ambient temperature:
-40°C to + 85°C

On resistance vs. ambient temperature
Across terminals 4 and 6 pin
LED current: 5 mA
Continuous load current: 130 mA(DC)

Turn on time vs. ambient temperature
Load voltage 350 V(DC)
LED current : 5 mA
Continuous load current: 130 mA(DC)



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