

D50A DATA SHEET

Parameter Item	Condition	Minimum Value	Typical Value	Maximum Value	Unit
Power Supply Voltage V_P		5.6		33	V
Over - voltage Protection Value			33.8		V
Under - voltage Protection Value			5.6		V
Power Supply Current I_P	Two - terminal wiring			24	A
Single - channel Continuous Output Current I_{mc}	$V_P = 24V$, Resistive Load			12.8	A
Single - channel Peak Output Current I_{mp}	$V_P = 24V$, $t=100ms$			70	A
Single - channel Peak Output Current I_{mp}	$V_P = 24V$, $T=10\mu s$			200	A
Logic Input Voltage V_{in}	Equal to the high - level control signal	3		5.5	V
Logic Output Current I_{ln}	$V_{CC} = 5V$		15		mA
PWM Input Frequency			18	60	kHz
Minimum PWM Pulse Width	Positive and negative pulses		0.5		us
Power Supply Voltage Utilization Rate	Full - duty - cycle input		99.60%		%
Over - heat Protection	Sensor location	85		95	°C
Operating Temperature		-25		85	°C