Series AMLD-RZ Up to 1000mA | LED Driver



BUIDENCOS AMID-GOLS-FE M

Models

Single output

FEATURES:

- Step Down DC/DC LED Driver
- Constant Current Output
- Ultra Wide (7:1) Input Range
- High Efficiency Up To 97%
- Operating Temperature Range -40°C to +85°C
- Open And Short LED Protection
- PWM / Digital Voltage / Analogue Dimming
- Output Power Up To 56 Watts



Single output					Rono		
Model	Input Voltage (V)	Output Voltage (V)	Maximum Rated Current (mA)	Max Capacitive Load (uF)	Efficiency (%)	Ripple & Noise (mV p-p)	
AMLD-6030-RZ	9-60	2-56	300	2.2	97	250	
AMLD-6035-RZ	9-60	2-56	350	2.2	97	300	
AMLD-6050-RZ	9-60	2-56	500	2.2	97	350	
AMLD-6060-RZ	9-60	2-56	600	2.2	97	400	
AMLD-6070-RZ	9-60	2-56	700	2.2	97	400	
AMLD-60100-RZ	9-60	2-56	1000	2.2	97	450	

NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.

Input Specifications

Parameters	Nominal	Typical	Maximum	Units
Voltage range	48	9-60		VDC
Filter		Capacitor		
Absolute Maximum Rating			65	VDC
Peak Input Voltage time			500	ms
DC/DC ON (Leave open if not used)		ON –Open or 2.5V< Vad	j <5V	
DC/DC OFF (or short pins 2,3,4)		OFF(shutdown) – Vadj ·	<0.8	
Maximum Remote pin drive current	Vadj = 0 - 5V		<1	mA
Quiescent Current in Shutdown mode	Vin = 60V		3	mA
On/Off Control (Digital Control)		Max PWM Frequency 1	KHz	
Output current adjustment		1 to 100		%

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Current accuracy		±5		%
Output Voltage range	V input = 60V	2-56		VDC
Output current	Vin – Vout > 4V			
Short Circuit protection	Regulated at the rated current for each model			
Temperature coefficient		±0.03		%/°C

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency	100% load	40-1000		KHz
Operating temperature	See derating chart -40 to +85			°C
Storage temperature		-40 to +125		°C
Maximum case temperature			105	°C
Thermal Impedance	Free air convection	+30		°C/W
Cooling		Free air convection		
Humidity			95	% RH
Case material	Non-Conductive Black Plastic (UL94V-0 rated)			
Weight	17.7			g
Dimensions (L x W x H)	1.25 x 0.80 x 0.49 inches 3	31.75 x 20.32 x 12.45 mm		
MTBF	> 2 000 000hrs (MIL-HDBK-217 F at +25 °C)			
Maximum Soldering Temperature	1.5 mm from case for 10sec.		260	°C
INTES				

NOTES:

1. Reversed polarity at the input power will damage the driver. The input ground must not be connected to the negative output.

2. Maximum output open voltage is equal to input voltage.



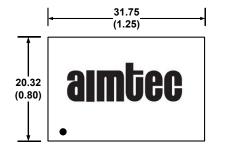
Safety Specifications

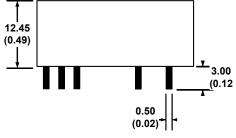
Parameters			
Standards	CE		
	EN 55015 : 2006+A1 : 2007+A2 : 2009		
	EN 61547 : 2009		
	(Designed to meet EN 60950-1)		

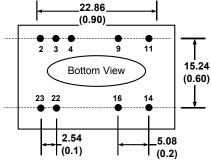
Pin Out Specifications

Pin	Single	
2	- V Input	- DC Supply
3	- V Input	- DC Supply
4	Vadj	PWM/ON/OFF or not used
9	- V Output	LED Cathode connection
11	 V Output 	LED Cathode connection
14	+ V Output	LED Anode connection
16	+ V Output	LED Anode connection
22	+ V Input	+ DC Supply
23	+ V Input	+ DC Supply

Dimensions





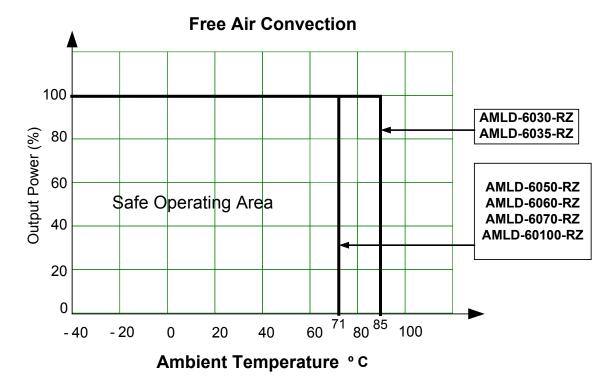


Mechanical Tolerances

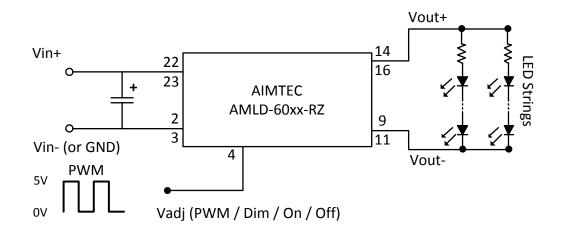
Case tolerance \pm 0.25mm or \pm 0.01 inches Pin tolerance \pm 0.05 or \pm 0.002



Derating



Typical Application Circuits



NOTE: 1. Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheets are no longer controlled by Aimtec; refer to www.aimtec.com for the most current product specifications. 2. Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured. 3. Mechanical drawings and specifications are for reference only. 4. All specifications are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified. 5. Aimtec may not have conducted destructive testing or chemical analysis on all internal components and chemicals at the time of publishing this document. CAS numbers and other limited information are considered proprietary and may not be available for release. 6. This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other the ones listed in this datasheet. 7. Warranty is in accordance with Aimtec's standard Terms of Sale available at www.aimtec.com.

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