

Specifications (typical at 25°C, nominal input voltage, rated output current unless otherwise specified)

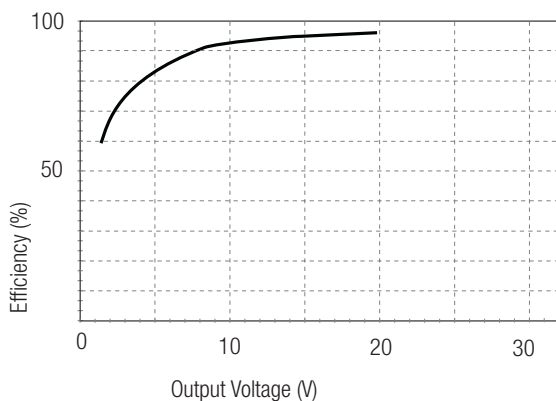
Dimensions	31.0 x 11.4 x 6.6mm	
Weight	1.9g	
Packing Quantity	12 pcs per Tube / 400 pcs per Reel	
Reflow Soldering Profile	265°C/10 sec max	
MTBF	(using MIL HDBK 217F) +25°C	>600 khours
PWM Dimming and ON/OFF Control (Leave open if not used)		
Remote ON/OFF	DC/DC ON	Open or 0V<Vr<0.6V
Threshold Voltages	DC/DC OFF (Standby)	0.6<Vr<2.9V
	DC/DC OFF (Full Shutdown)	2.9V<Vr<6V
Remote Pin Drive Current	Vr=5V	1mA max
Quiescent Input Current in Shutdown Mode	Vin=36V	200µA max
Recommended PWM Frequency (measured 10%~90% Dimming)	For Linear Operation	200Hz
	Maximum Frequency	1000Hz
Analogue Dimming Control (leave open if not used)		
Input Voltage Range	300-1000mA	-0.3V - 15V
Control Voltage Range Limits (see Graph)	300-1000mA / Full On	0.13V ± 50mV
	300-700mA / Full Off	4.2V ± 150mV
	1000mA / Full Off	4.35V ± 100mV
Analogue Pin Drive Current	300-1000mA / Vc=5V	0.2mA max.
Environmental		
Shock / Vibration	EN61373	
EMC Railways	EN50121-3-2:2006	
Conducted Emissions	300-1000mA (/A Suffix)	EN55022, Class A
	300-700mA (/B Suffix)	EN55022, Class B
Radiated Emissions	EN55022, Class B	
ESD	EN61000-4-2, Criterion A	
Radiated Immunity	EN61000-4-3, Criterion A	
Fast Transient	EN61000-4-4, Criterion A	
Conducted Immunity	EN61000-4-6, Criterion A	

Note:

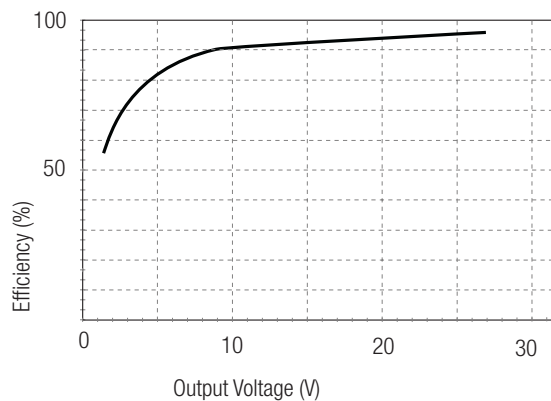
1. All LED Drivers may not be used without a load. They must be switched on the primary side only. Noncompliance may damage the LED or reduce its lifetime.
2. It is not possible to parallel the drivers to increase the current.

Typical Characteristics

Vin = 24V, Iout = 300~1000mA

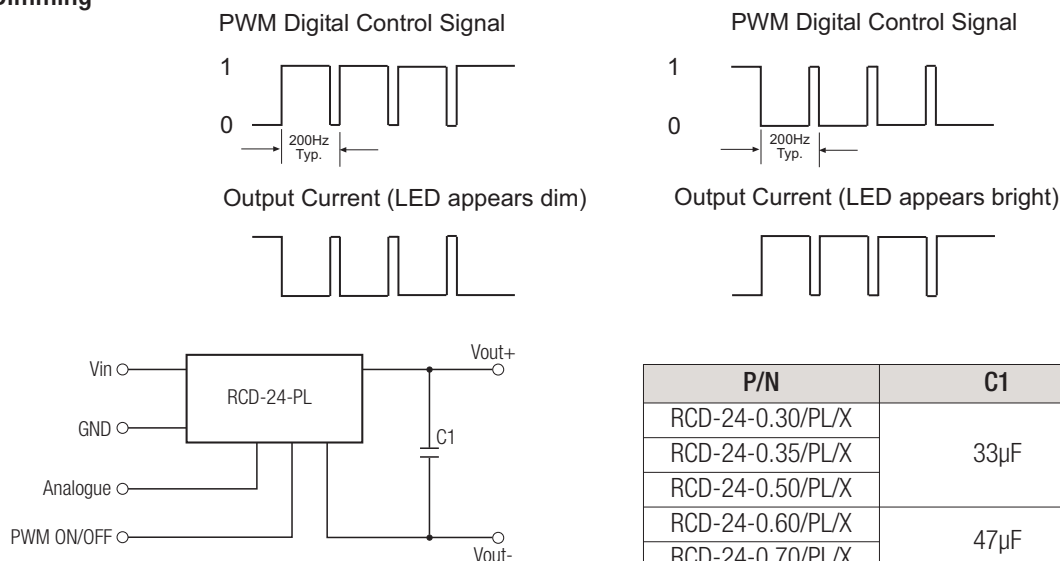


Vin = 32V, Iout = 300~1000mA



Dimming

Digital Dimming

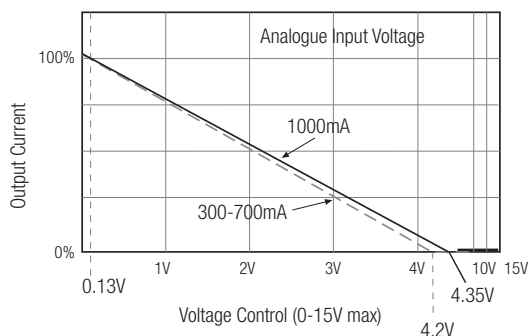


Note:

- If PWM dimming is used, a capacitor on output in parallel is required.

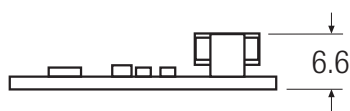
P/N	C1
RCD-24-0.30/PL/X	33μF
RCD-24-0.35/PL/X	
RCD-24-0.50/PL/X	
RCD-24-0.60/PL/X	47μF
RCD-24-0.70/PL/X	
RCD-24-1.00/PL/A	150μF

Analogue Dimming

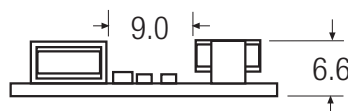


Package Style and Pinning

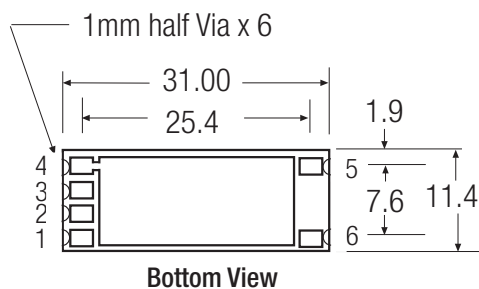
Class A Version



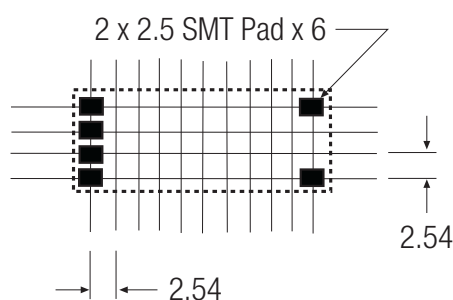
Class A (1.00A-Version) Class B Version



PCB Layout Top View



Bottom View



Pad Connections		RCD-24-PL Series
Pad #	Out	Comments
1	+Vin	DC Supply
2	Analogue Dimming	Leave open if not used
3	PWM/ON/OFF	Leave open if not used
4	GND	Do not connect to -Vout
5	-Vout	LED Cathode Connection
6	+Vout	LED Anode Connection

XX.X ± 0.5 mm
XX.XX ± 0.25 mm

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