



Микро-Чип
электронные компоненты

Наличие и актуальные цены на

AM15T-24051SZ

<https://www.icmicro.ru/store/AM15T-24051SZ/>



FEATURES:

- Wide Input Range 2:1
- 1600 Vdc Isolation
- Efficiency up to 91%
- Soft Start
- Remote On/Off Function
- No Minimum Load Required
- -40°C to +85°C Operating Temperature Range
- Short Circuit & Over Voltage Protection
- DIP 24 Package
- Low No Load Input Current



Models
Single output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Maximum Capacitive load (µF)	Efficiency (%)
AM15T-1203SZ	9-18	3.3	4000	1600	4700	86
AM15T-12051SZ	9-18	5.1	3000	1600	3300	89
AM15T-1212SZ	9-18	12	1250	1600	600	89
AM15T-1215SZ	9-18	15	1000	1600	400	90
AM15T-2403SZ	18-36	3.3	4000	1600	4700	87
AM15T-24051SZ	18-36	5.1	3000	1600	3300	89
AM15T-2412SZ	18-36	12	1250	1600	600	90
AM15T-2415SZ	18-36	15	1000	1600	400	91
AM15T-4803SZ	36-75	3.3	4000	1600	4700	86
AM15T-48051SZ	36-75	5.1	3000	1600	3300	88
AM15T-4812SZ	36-75	12	1250	1600	600	89
AM15T-4815SZ	36-75	15	1000	1600	400	89

Models
Dual output

Model	Input Voltage (V)	Output Voltage (V)	Output Current max (mA)	Isolation (VDC)	Maximum Capacitive load (µF)	Efficiency (%)
AM15T-1205DZ	9-18	±5	±1500	1600	±1500	86
AM15T-1212DZ	9-18	±12	±625	1600	±288	90
AM15T-1215DZ	9-18	±15	±500	1600	±200	90
AM15T-2405DZ	18-36	±5	±1500	1600	±1500	86
AM15T-2412DZ	18-36	±12	±625	1600	±288	90
AM15T-2415DZ	18-36	±15	±500	1600	±200	90
AM15T-4805DZ	36-75	±5	±1500	1600	±1500	86
AM15T-4812DZ	36-75	±12	±625	1600	±288	89
AM15T-4815DZ	36-75	±15	±500	1600	±200	90

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	12	9-18		VDC
	24	18-36		VDC
	48	36-48		VDC
Filter	π (Pi) Network			
Transient recovery time		250		µs
Transient response deviation			±3	%
Start up time	Nominal Vin and constant resistive load		20	ms
Absolute Maximum Rating	12 Vin models		-0.7-36	VDC
	24 Vin models		-0.7-50	VDC
	48 Vin models		-0.7-100	VDC

Input Specifications (continued)

Parameters	Nominal	Typical	Maximum	Units
Peak Input Voltage time			1000	ms
Input reflected ripple current	With a 12 μ H inductance and a 47 μ F capacitor		20	mA p-p
Quiescent Current	12Vin models		15	mA
	24Vin models		10	mA
	48Vin models		5	mA
On/Off Control	ON – High (3.0 ... 12Vdc) or open circuit; OFF – Low (0 ... 1.2Vdc) or Short circuit pin1 and pin 2/3 OFF idle current: 5.0 mA typ			

Isolation Specifications

Parameters	Conditions	Typical	Rated	Units
Tested I/O voltage	60 sec		1600	VDC
Tested Case/Input and Output Resistance		1600		VDC
Capacitance		>1000		MOhm
		2000		pF

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy			± 1	%
Voltage balance	1 st output 25-100% load, 2 nd output 100% load		± 5	%
Line voltage regulation	Single, HL-LL		± 0.2	%
	Dual, HL-LL		± 0.5	%
Load voltage regulation	Single, 0% Load to 100% load		± 0.5	%
	Dual, 0% to 100% load, balance load		± 1.0	%
Over voltage protection	Zener diode clamp, 3.3Vout	3.9		VDC
	Zener diode clamp, 5.1Vout	6.2		VDC
	Zener diode clamp, 12Vout	15		VDC
	Zener diode clamp, 15Vout	18		VDC
	Zener diode clamp, ± 5 Vout	± 6.2		VDC
	Zener diode clamp, ± 12 Vout	± 15		VDC
	Zener diode clamp, ± 15 Vout	± 18		VDC
Over current protection	Full Load	150		% of Iout
Short Circuit protection	Continuous			
Short circuit restart	Auto recovery			
Ripple & Noise*	20MHz Bandwidth		60	mVp-p

* Measured with a 1 μ F ceramic capacitor

General Specifications

Parameters	Conditions	Typical	Maximum	Units
Switching frequency		250 to 330		KHz
Operating temperature	Full Load with Derating above 60°C	-40 to +85		°C
Storage temperature		-55 to +125		°C
Max Case temperature			105	°C
Temperature coefficient		± 0.02		%/°C
Derating	Above 60°C	2.5		%/°C
Cooling	Free air convection			
Humidity			95	% RH
Case material	Nickel-coated Copper			
Potting material	UL94V-0 rated			
Weight		20.0		g
Dimensions (L x W x H)	Tolerance ± 0.5 mm or ± 0.02 inches	1.25 x 0.8 x 0.4 inches	31.8 x 20.3 x 10.2mm	
MTBF	> 460 000 hrs (MIL-HDBK -217F, Ground Benign, t=+25°C)			
Manual soldering temperature	1.5mm from case for 10sec		260	°C

Safety Specifications

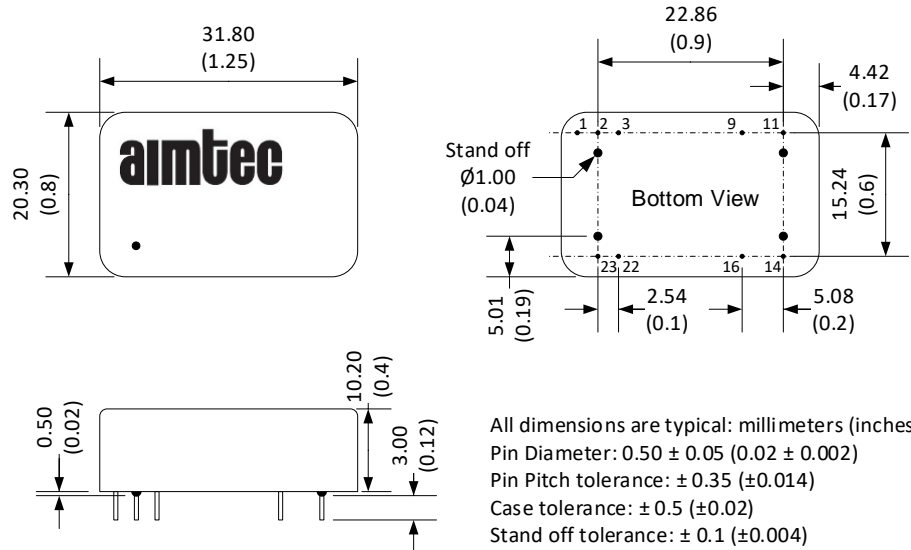
Parameters

Agency Approval	CE
Standards	Designed to meet IEC/EN/UL60950-1, 62368-1
	EN55032 Class A
	IEC61000-4-2, Perf. Criteria B
	IEC61000-4-3, Perf. Criteria A
	IEC61000-4-4, Perf. Criteria B (requires 2 external cap 330uF/100V or 1 cap 680 uF/100V for parallel connection)
	IEC61000-4-5, Perf. Criteria B (requires 2 external cap 330uF/100V or 1 cap 680 uF/100V for parallel connection)
	IEC61000-4-6, Perf. Criteria A
	IEC61000-4-8, Perf. Criteria A

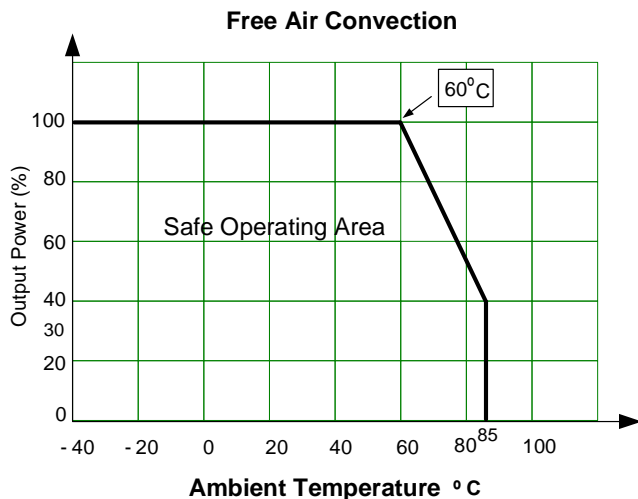
Pin Out Specifications

Pin	Single	Dual
1	Remote On/Off	Remote On/Off
2	-V Input	-V Input
3	-V Input	-V Input
9	No Pin	Common
11	N.C.	-V Output
14	+V Output	+V Output
16	-V Output	Common
22	+V Input	+V Input
23	+V Input	+V Input

Dimensions



Derating



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