Product Change Notices

PCN No.:PCN20210601

Date: 6/9/2021

This is to inform you that AME8867 datasheet has been changed from Rev. A.01 to Rev. B.01. This notification is for your information and concurrence.

If you require Qual/Rel data or samples to qualify this change, please contact AME, Inc. directly or through AME's authorized Sales Representative or Distributor within 30 days.

Please note this PCN will be effective 30 days after the issuing date automatically if we do not receive any response, comment or questions from you.

If you have any questions concerning this change, please contact:

PCN Originator:

Name: Michael Chang

Email: michaelc@ame.com.tw

Reason for Change:

Comply with product performance.

1. Revised Features on Page1

From:

Rev. A.01

■ Features

- 2.7V to 36V Wide Input Voltage Range
- Output Voltage Tolerance: ±2%
- Maximum Output Current: 250mA
- Ultra Low Quiescent Current: 2.5μA
- 1.2V Typical Low Dropout Voltage at 250mA Load Current
- Fixed, 3.3V and 5V Output Voltage Options
- Internal Over Temperature Protection
- Internal Over Current Protection
- Stable With Low ESR Ceramic Output Capacitor
- Maximum Under Full Temperature

To:

Rev. B.01

■ Features

- 4.75V to 36V Wide Input Voltage Range
- Output Voltage Tolerance: ±2%
- Maximum Output Current: 250mA
- Ultra Low Quiescent Current: 1.5μA(typical)
- 1.2V Typical Low Dropout Voltage at 250mA Load Current
- Internal Over Temperature Protection
- Internal Over Current Protection
- Stable With Low ESR Ceramic Output Capacitor

2. Add new SOT-25 Package Pin Configuration on Page4

From:

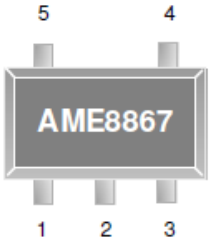
Rev. A.01

NA

To:

Rev. B.01

SOT-25
Top View



AME 8867-BEVxxx

1. GND
2. IN
3. OUT
4. NC
5. NC

*** Die Attach:**
Non-Conductive Epoxy

3. Add new AME8867-BEVxxx Pin Description on Page5

From:

Rev. A.01

NA

To:

Rev. B.01

■ **Pin Description**

Pin Name	Pin Description	Pin Number									
		SOT-23			SOT-89			SOT-223	SOT-25		SOP-8/PP
		A	B	C	A	B	C	A	A	B	A
IN	Input Voltage pin	1	2	3	1	2	3	1	1	2	8
GND	Ground.	3	3	1	2	1	2	2	2	1	2, 3, 6, 7
OUT	Output Voltage pin.	2	1	2	3	3	1	3	5	3	1
EN	Enable pin.	NA	NA	NA	NA	NA	NA	NA	3	NA	5
NC	No connection.	NA	NA	NA	NA	NA	NA	NA	4	4/5	4

4. Add new AME8867-BEVxxx in Ordering Information on Page6

From:

Rev. A.01

NA

To:

Rev. B.01

■ **Ordering Information**

AME8867 - x x x xxx

- Output Voltage
- Number of Pins
- Package Type
- Pin Configuration

Pin Configuration	Package Type	Number of Pins	Output Voltage
A (SOT-23) 1. IN 2. OUT 3. GND B (SOT-23) 1. OUT 2. IN 3. GND C (SOT-23) 1. GND 2. OUT 3. IN A (SOT-89) (SOT-223) 1. IN 2. GND 3. OUT B (SOT-89) 1. GND 2. IN 3. OUT C (SOT-89) 1. OUT 2. GND 3. IN A (SOT-25) 1. IN 2. GND 3. EN 4. NC 5. OUT B (SOT-25) 1. GND 2. IN 3. OUT 4. NC 5. NC	E: SOT-2X F: SOT-89 G: SOT-223 Z: SOP-8/PP	T: 3 V: 5 A: 8	330: 3.3V 440: 4.4V 500: 5.0V

5. Revised Rating in Recommended Operating Conditions on Page7

From:

Rev. A.01

■ Recommended Operating Conditions

Parameter	Symbol	Rating	Unit
Input Voltage	V_{IN}	2.7 to 36	V

To:

Rev. B.01

■ Recommended Operating Conditions

Parameter	Symbol	Rating	Unit
Input Voltage	V_{IN}	4.75 to 36	V

6. Add SOT-25 Package Thermal Information on Page8

From:

Rev. A.01

NA

To:

Rev. B.01

Parameter	Package	Die Attach	Symbol	Maximum	Unit
Thermal Resistance* (Junction to Case)	SOT-23	Conductive Epoxy	θ_{JC}	81	°C / W
		Non-Conductive Epoxy		140	
	SOT-25	Conductive Epoxy		81	
		Non-Conductive Epoxy		140	
		Conductive Epoxy		40	
Thermal Resistance (Junction to Ambient)	SOT-25	Conductive Epoxy	θ_{JA}	260	°C / W
		Non-Conductive Epoxy		260	
		Conductive Epoxy		180	
Internal Power Dissipation	SOT-25	Conductive Epoxy	P_D	400	mW
		Non-Conductive Epoxy		400	
	SOT-89	Conductive Epoxy		550	
		Non-Conductive Epoxy		550	

7. Revised Electrical Specifications on Page9

From:

Rev. A.01

■ Electrical Specifications

V_{IN}= 5V, I_{OUT} = 1mA, C_{IN}= C_{OUT}= 1.0μF, T_J= 25°C, unless otherwise specified.

Parameter	Symbol	Test Condition	Min	Typ	Max	Units
Input Voltage	V_{IN}		2.7		36	V
DC Output Accuracy	V_{OUT}		-2%		2%	V
Line Regulation	$\triangle V_{LINE}$	V_{IN} = V_{OUT} +1V to 36V		2	12	mV
Load Regulation	$\triangle V_{LOAD}$	I_{OUT} = 1mA to 100mA		3	15	mV
		I_{OUT} = 1mA to 250mA		15	50	
Dropout Voltage (Note1)	V_{DROP}	I_{OUT} = 100mA		400	720	mV
		I_{OUT} = 250mA		1200	2160	

To:

Rev. B.01

■ Electrical Specifications

V_{IN}= V_{OUT} + 2V, I_{OUT} = 1mA, C_{IN}= C_{OUT} = 1.0μF, T_J= 25°C, unless otherwise specified.

Parameter	Symbol	Test Condition	Min	Typ	Max	Units
Input Voltage	V_{IN}		4.75		36	V
DC Output Accuracy	V_{OUT}		-2%		2%	V
Line Regulation	$\triangle V_{LINE}$	V_{IN} = V_{OUT} +1.5V to 36V		2	12	mV
Load Regulation	$\triangle V_{LOAD}$	I_{OUT} = 1mA to 100mA		0.5	1	%
		I_{OUT} = 1mA to 250mA		1	2	
Dropout Voltage (Note1)	V_{DROP}	I_{OUT} = 100mA		400	720	mV
		I_{OUT} = 250mA		1200	2000	