

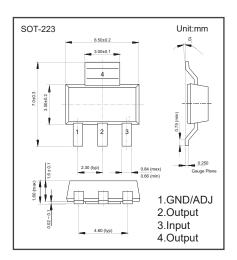
EN: This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.



Features

- Low dropout voltage
- Load regulation: 0.2% typic al
- Optimized for Low Voltage
- On-chip thermal limiting
- 1A Adjustable/Fixed Low Dropout Linear Regulator
- Three-terminal adjustable or fixed low drop out
 1.2V,1.25V,1.5V,1.8V, 1.9V, 2.5V,2.85V, 3.3V, 5V. Regulators

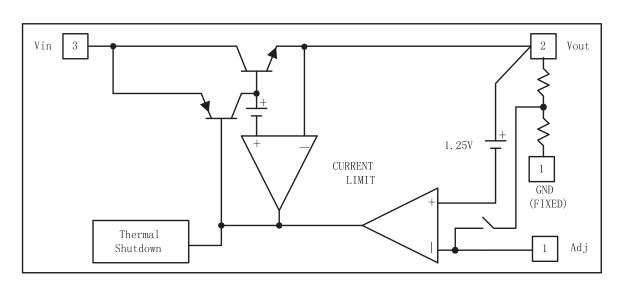


■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit	
Input Voltage	VIN	18	V	
Thermal Resistance.Junction- to-Ambient (Note.1)	RθJA	136	°C/W	
Thermal Resistance.Junction- to-Case	Rejc	20		
Junction Temperature	TJ	150		
Maximum Ambient Temperature	TA	140	°C	
Lead Temperature (10 sec)	·	300	C	
Storage Temperature Range	Tstg	-65 to 150		

Note.1: No air flow

■ Block Diagram





■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions		Min	Тур	Max	Unit	
Reference Voltage	VREF	AMS1117-ADJ	10mA \leq Iout \leq 800mA, 1.5V \leq ViN - Vout \leq 12V	1.225	1.25	1.275		
Output Voltage		AMS1117-1.2	0≤lout≤800mA, 2.6V \leq Vin - Vout \leq 12V	1.175	1.2	1.225		
		AMS1117-1.25	0≤Iout≤800mA, 2.65 V≤Vin - Vout ≤12V	1.238	1.25	1.275]	
		AMS1117-1.5	0 \leq Iout \leq 800mA, 2.9V \leq ViN - Vout \leq 12V	1.47	1.5	1.53		
		AMS1117-1.8	0 \leq Iout \leq 800mA, 3.2V \leq ViN - Vout \leq 12V	1.764	1.8	1.836	V	
	Vout	AMS1117-1.9	0≤lout≤800mA, 3.3V≤Vin - Vout ≤12V	1.862	1.9	1.938	V	
		AMS1117-2.5	0≤lout≤800mA, 3.9V≤Vin - Vout ≤12V	2.45	2.5	2.55		
		AMS1117-2.85	0≤lout≤800mA, 4.25V≤Vin - Vout ≤12V	2.822	2.85	2.878		
		AMS1117-3.3	0≤lout≤800mA, 4.75V≤Vin - Vout ≤12V	3.234	3.3	3.366		
		AMS1117-5.0	0≤lout≤800mA, 6.5V≤Vin - Vout ≤12V	4.9	5	5.1		
		AMS1117-ADJ	lout=10mA,1.5V≤Vin-Vout≤12V		0.035	0.2	%	
1		AMS1117-1.2	lout=10mA,2.6V≪Vin-Vout≪12V			12	mV	
		AMS1117-1.25	lout=10mA,2.65V≲Vin-Vout≤12V		1			
		AMS1117-1.5	lout=10mA,2.9V≲Vin-Vout≤12V					
Line Regulation	^ \ /ou r	AMS1117-1.8	lout=10mA,3.2V≲Vin-Vout≤12V					
Line Regulation	△Vout	AMS1117-1.9	lout=10mA,3.3V≤Vin-Vout≤12V		9			
		AMS1117-2.5	lout=10mA,3.9V≤Vin-Vout≤12V					
		AMS1117-2.85	lout=10mA,4.25V≲Vin-Vout≤12V					
		AMS1117-3.3	lout=10mA,4.75V≲Vin-Vout≤12V					
		AMS1117-5.0	lout=10mA,6.5V≲Vin-Vout≤12V					
		AMS1117-ADJ	Vin-Vout=3V, 10mA≤lout≤800mA		0.2	0.4	%	
		AMS1117-1.2	Vin=2.6V, 10mA≤lout≤800mA			10	mV	
		AMS1117-1.25	Vin=2.65V, 10mA≤lout≤800mA					
		AMS1117-1.5	Vin=2.9V, 10mA≤lout≤800mA					
	^ \ / > =	AMS1117-1.8	Vin=3.2V, 10mA≤lout≤800mA					
Load Regulation	△Vout	AMS1117-1.9	Vin=3.3V, 10mA≤lout≤800mA		3			
		AMS1117-2.5	Vin=3.9V, 10mA≤lout≤800mA					
		AMS1117-2.85	Vin=4.25V, 10mA≤lout≤800mA					
		AMS1117-3.3	Vin=4.75V, 10mA≤lout≤800mA					
		AMS1117-5.0	Vin=6.5V, 10mA≤lout≤800mA					
Dropout Voltage			ΔVout,ΔVREF=1%, IOUT=0.1A		1.11	1.2		
	VIN-VOUT	AMS1117-XXX	ΔVout,ΔVREF=1%, ΙουΤ=0.5A		1.18	1.25	V	
			ΔVout,ΔVREF=1%, IOUT=0.8A		1.26	1.3		
O	10. 0	AMS1117-XXX	VIN-VOUT=5V , TJ = 25°C	1.25	1.4	1.6	Α	
Current Limit	llimit	AMS1117-XXX	AMS1117-ADJ		5	10	mA	
Adjust Pin Current	ladj			55	120	μ.Λ		
Adjust Pin Current Change	IChange				0.2		uA	



■ Electrical Characteristics Ta = 25°C

Quiescent Current	Ια	AMS1117-1.2 AMS1117-1.25 AMS1117-1.5 AMS1117-1.8 AMS1117-1.9 AMS1117-2.5 AMS1117-2.85	Vin-Vout=1.25V	4	8	mA
		AMS1117-2.85 AMS1117-3.3				
		AMS1117-5.0				

Marking

1117-X.X K****



■ Typical Applications

