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OVERVIEW (#OVERVIEW)	RH1185AMK - Negative Regulator with Adjustable Current	- (RH1185AMK)
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	ABSOLUTE MAXIMUM RATINGS	RH1185AMK - Negative Regulator with Adjustable Current Limit (http://cds.linear.com /docs/Datasheet/RH1185amkfa.pdf RH1185MK DICE/DWF SPECIFICATION (http://cds.linear.com /docs/Datasheet /RH1185MK_DICE.pdf) Spec Notice RH1185AMK - SPEC NO. 05-08-5206 (http://cds.linear.com /docs/Spec Notice/RH1185AMK 05-08-5206 SPEC REV_B.pdf) RH1185AMK DICE - SPEC NO. 05-08-5232 (http://cds.linear.com/docs/Spec Notice/RH1185AMK DICE - SPEC NO. 05-08-5232 RH1185AMK DICE - SPEC NO. 05-08-5232 RH1185AMK DICE - SPEC NO. 05-08-5232
SIMULATE (#SIMULATE)	(Note 1) Input Voltage	
DEMO BOARDS	Input Voltage	
(#DEMOBOARDS)	FB Voltage7V	
TECH SUPPORT	REF Voltage7V	
(#TECHSUPPORT)	Output Voltage	
	Output Reverse Voltage2V	
	Operating Ambient Temperature Range –55°C to 125°C	
	Operating Junction Temperature Range	
	Control Section	
	Storage Temperature Range	
	Thermal Resistance Junction to Case	
	TO-3 Control Area1°C/W	
	Power Transistor	
	Lead Temperature (Soldering, 10 sec)	
	Typical Application	
	BURN-IN CIRCUIT	
	15V 4.02k 3 1 GND REF FB 2 2k VOUT RH1165MK BI CASE -15V	
	Description	
	The RH1185AMK is a 3A low dropout regulator with adjustable	
	current limit and remote sense capability. It can be used as a positive	

regulator with floating input or as a standard negative regulator with grounded input. The output voltage range is 2.5V to 25V, with $\pm 1\%$ accuracy on the internal reference voltage.

The RH1185AMK uses a saturation-limited NPN transistor as the pass element. This structure gives the linear dropout characteristics of a FET pass element with significantly less die area. High efficiency is maintained by using special anti-saturation circuitry that adjusts base drive to track load current.

The on-resistance is typically 0.25Ω. Accurate current limit is programmed with a single 1/8W external resistor, with a range of zero to three amperes. A second, fixed internal limit circuit prevents destructive currents if the programming current is accidentally overranged.

The RH1185AMK has all the protection features of previous LTC regulators, including power limiting and thermal shutdown.

Applications

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