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FHR1200

Micro-Power, Ultra Wide Voltage Regulator

Features

- Low Operating Current: 12 μ A Max.
- Option to Direct Drive Feedback Pin on PWM Controllers
- Programmable Output: 7.5 V to 100 V
- Wide Operating Temperature Range: -55°C to +150°C
- Output Voltage Accuracy: \pm 2%
- Excellent Output Voltage Compensation: -30 PPM/°C
- Sink Current Capability: 10 μ A to 50 mA
- Small Package: SC70-6 (SOT363)

Applications

- Primary-Side Regulation in Flyback SMPS
- Secondary-Side Regulation in Flyback SMPS
- High Input Voltage SMPS
 - o Smart Meter
 - o Industrial Motor Control
 - o Wireless Infrastructure
- Industrial and Street Lighting LED Power Supplies

Description

The FHR1200 is a high-efficiency regulator that outperforms the typical shunt regulator in applications where low operating power, wide temperature, and wide voltage range is important. The regulator also features better stability and faster response than many existing regulators.

Unlike the LM431 type of part, the FHR1200 can directly drive a power supply controller thus saving parts count and circuit complexity in many applications. This also makes the FHR1200 ideal for non-isolated secondary side, primary side, and floating regulation. Non-isolated secondary side regulation saves the cost of OPTOs and simplifies the power supply design.

The FHR1200 is very flexible and can be used in many diverse applications. For example: V_{CC} regulators to >100 volts, small additional auxiliary power supplies, programmable precision zener diodes (both high and low power), plus numerous analog circuits.

The FHR1200 is packaged in space-saving surface-mount SC70-6 (SOT363) to minimize layout space and cost.

Typical Application

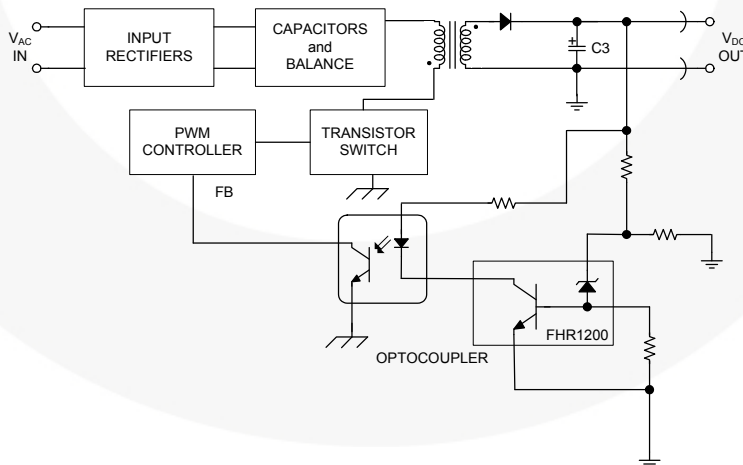


Figure1. Flyback Power Supply Secondary-Side Regulation

Ordering Information

Part Number	Top Mark	Package	Packing Method	Remarks
FHR1200	FH	SC70-6 (SOT363)	Tape and Reel	3000 pcs, Reel Size is 7"

Block Diagram

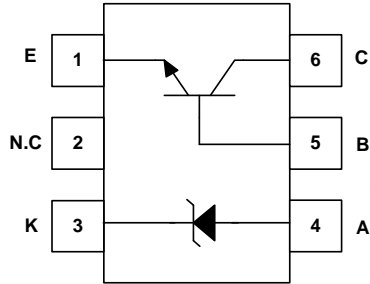


Figure 2. Internal Connection

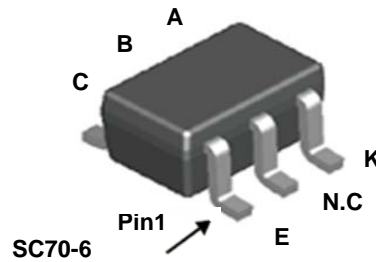


Figure 3. Device Package

Pin Definitions

Pin #	Pin Name	Description
1	E	Ground Connection
2	N.C	No Connection
3	K	Reference Voltage
4	A	Ref Bias Pin: Tie R4 to ground to bias; Tie cap to ground for lower noise
5	B	Reference Bias Pin
6	C	Regulator Output

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^\circ\text{C}$ unless otherwise noted.

Symbol	Parameter	Value	Unit
V_{OUT}	Regulator Output	100	V
I_{BIAS}	Cathode Current	50	mA
P_D	Power Dissipation	$T_A = 25^\circ\text{C}$ 227	mW
T_J, T_{STG}	Operating and Storage Junction Temperature Range	-55 to +150	$^\circ\text{C}$

Thermal Characteristics⁽¹⁾

Symbol	Parameter	Value	Unit
$R_{\theta JA}$	Thermal Resistance, Junction to Air	550	$^\circ\text{C}/\text{W}$
Ψ_{JB}	Junction to Board Thermal Characterization Parameter	370	$^\circ\text{C}/\text{W}$

Note:

- PCB Board Size: FR4 76 x 114 x 0.6 T mm³ (3.0 inch x 4.5 inch x 0.062 inch) with minimum land pattern size.
 Ψ_{JB} test method: T-36 gauge thermocouple is soldered directly to the collector lead pin about 1 mm distance from package lead.

Electrical Characteristics

Values are at $T_A = 25^\circ\text{C}$ unless otherwise noted.

Symbol	Parameter	Conditions	Min.	Typ.	Max.	Units	
V_{REF}	Reference Voltage (Zener + Base Emitter Voltage)	$V_{OUT} = V_{REF}$, Fig. 4, $V_{CC} = 17.3\text{ V}$, Accuracy = $\pm 2\%$, $I_Z = 25\ \mu\text{A}$	$R3 = 49.9\ \text{k}\Omega$, $I_{REF} = 1\ \mu\text{A}$, $R4 = 23.2\ \text{k}\Omega$, $I_{CC} = 200\ \mu\text{A}$	7.115	7.260	7.405	V
TCV_{REF}	Temperature Coefficient ⁽²⁾	$V_{OUT} = V_{REF}$, Fig. 4, Accuracy = $\pm 2\%$, $T_A = 0$ to $+100^\circ\text{C}$ to $T_A = -40$ to $+125^\circ\text{C}$	$R3 = 49.9\ \text{k}\Omega$, $I_{REF} = 1\ \mu\text{A}$, $R4 = 9.53\ \text{k}\Omega$, $I_{CC} = 200\ \mu\text{A}$, $I_Z = 60\ \mu\text{A}$, $V_{CC} = 10\ \text{V}$		29		PPM/ $^\circ\text{C}$
$\frac{\Delta V_{REF}}{\Delta V_{OUT}}$	Ratio of the Change in Reference Voltage to the Change in Cathode Voltage	Fig. 5, $V_{CC} = V_{OUT} + 20\ \text{V}$, $I_Z = 25\ \mu\text{A}$, $V_{OUT} = V_{REF} + 75\text{V}$, $R5 =$ ⁽³⁾	$R3 = 100\ \text{k}\Omega$, $R2 = 53.6\ \text{k}\Omega$, $R1 = 0$ $499\ \text{k}\Omega$, $R4 = 23.2\ \text{k}\Omega$, $I_{CC} = 200\ \mu\text{A}$, $I_{REF} = 150\ \mu\text{A}$		0.024	0.200	mV/V
I_Z	Reference Input Current	$I_{CC} = 1.0\ \text{mA}$, Fig. 5, $V_{CC} = 17.3\ \text{V}$, $R1 = 10.0\ \text{k}\Omega$, $R2 =$, $R3 = 100\ \text{k}\Omega$, $R4 = 499\ \text{k}\Omega$, $R5 =$ ⁽⁴⁾			7.7	12.0	μA
$\Delta I_Z / \Delta T$	Deviation of Reference I_Z Over Temperature				5.45		$\mu\text{A}/^\circ\text{C}$
$\frac{\Delta V_{REF}}{\Delta I_{CC}}$	Output Impedance	Fig. 4, $V_{OUT} = V_{REF}$, $V_{CC} = 15.4$ $19.4\ \text{V}$, $I_Z = 25\ \mu\text{A}$, $f = 0\ \text{Hz}$, $R5 =$ ⁽⁵⁾	$I_{CC} = 160$ $240\ \mu\text{A}$, $R3 = 49.9\ \text{k}\Omega$, $R4 = 23.2\ \text{k}\Omega$		154	300	Ω
e_n	Output Noise Voltage ⁽⁶⁾	$V_{OUT} = V_{REF}$, Fig. 6, $I_{CC} = 1.0\ \text{mA}$, $V_{CC} = 17.3\ \text{V}$, $V_{REF} = 7.35\ \text{V}$, $I_Z = 25\ \mu\text{A}$, $R3 = 15.00\ \text{k}\Omega$, $R4 = 28.7\ \text{k}\Omega$, $f = 400\ \text{Hz}$ to $100\ \text{KHz}$	$C_N = n/a$, $C_L = n/a$ $C_N = 0.1\ \mu\text{F}$, $C_L = n/a$ $C_N = n/a$, $C_L = 0.1\ \mu\text{F}$ $C_N = 0.1\ \mu\text{F}$, $C_L = 0.1\ \mu\text{F}$		141.0		μVrms
GBW (3db)	Gain Bandwidth Product	$I_{CC} = 1.0\ \text{mA}$, $V_{CC} = 27\ \text{V}_{DC}$, $V_{IN} = 2\ \text{Vp-p}$, $I_{B1} = 5\ \mu\text{A}$, $I_Z = 25\ \mu\text{A}$, $C_G C_L =$, $C_N = 0.1\ \mu\text{F}$, $R1 = 23.2\ \text{k}\Omega$, $R2 = 39.2\ \text{k}\Omega$, $R3 = 15\ \text{k}\Omega$, $R4 = 28.7\ \text{k}\Omega$, $R5 = 22\ \text{k}\Omega$, $V_{OUT} = 12\ \text{V}$, $I_{REF} = 200\ \mu\text{A}$, Gain = -1, Fig. 7			4.47		MHz
SR	Slew Rate	$I_{CC} = 1.0\ \text{mA}$, $V_{CC} = 27\ \text{V}_{DC}$, $V_{IN} = 2\ \text{Vp-p}$, $I_{B1} = 5\ \mu\text{A}$, $I_Z = 25\ \mu\text{A}$, $C_G C_L =$, $C_N = 0.1\ \mu\text{F}$, $R1 = 23.2\ \text{k}\Omega$, $R2 = 39.2\ \text{k}\Omega$, $R3 = 15\ \text{k}\Omega$, $R4 = 28.7\ \text{k}\Omega$, $R5 = 22\ \text{k}\Omega$, $V_{OUT} = 12\ \text{V}$, $I_{REF} = 200\ \mu\text{A}$, Gain = -1, Fig. 7			18.8		V/ μs

Notes:

2. The deviation parameters $V_{REF(\text{dev})}$ and $I_{REF(\text{dev})}$ are defined as the differences between the maximum and minimum values obtained over the rated temperature range. The average full-range temperature coefficient of the reference input voltage, TCV_{REF} , is defined as:

$$TCV_{REF} \left(\frac{\text{ppm}}{^\circ\text{C}} \right) = \frac{\left(\frac{V_{REF(\text{dev})}}{V_{REF}(T_A=25^\circ\text{C})} \right) * 10^6}{\Delta T} \quad (T_A): \text{ Ambient Temperature}$$

$V_{REF(\text{dev})}$: V_{REF} deviation over full temperature range

where ΔT is the rated operating free-air temperature range of the device.

TCV_{REF} can be positive or negative, depending on whether minimum V_{REF} or maximum V_{REF} , respectively, occurs at the lower temperature.

$$3. \quad \frac{\Delta V_{REF}}{\Delta V_{OUT}} = \text{ABS} \left| \frac{V_{REF1} - V_{REF2}}{V_{OUT1} - V_{OUT2}} \right|$$

$$4. \quad I_Z = \frac{V_{REF} - V_{OUT}}{R1}$$

$$5. \quad Z_{OUT} = \frac{V_{REF2} - V_{REF1}}{I_{CC2} - I_{CC1}}$$

6. For testing: a) hfe typical ~200; b) all resistors are metal film; c) all capacitors are plastic film.

Test Circuit

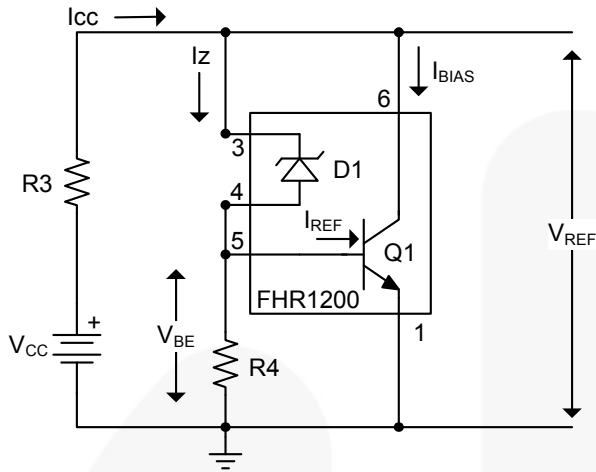


Figure 4. Test Configured: $V_{REF} = V_{OUT}$

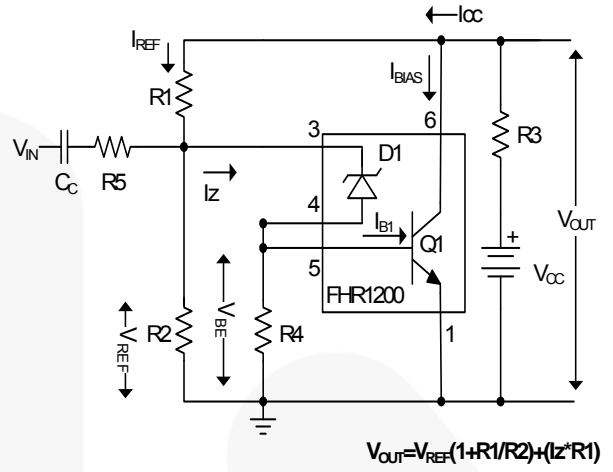


Figure 5. Test Configured: $V_{REF} < V_{OUT}$

$$V_{OUT} = V_{REF}(1 + R1/R2) + (I_Z * R1)$$

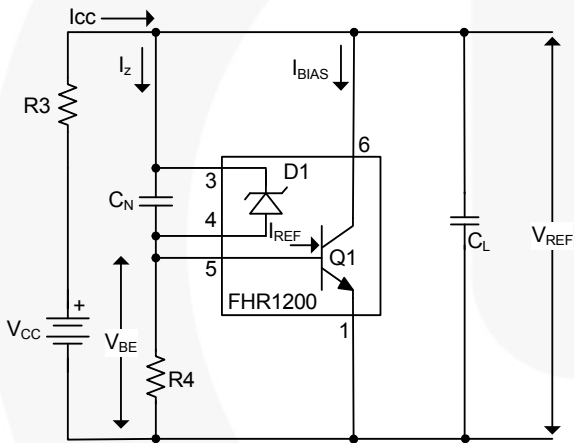


Figure 6. Test Configured: $V_{REF} = V_{OUT}$ with Capacitance

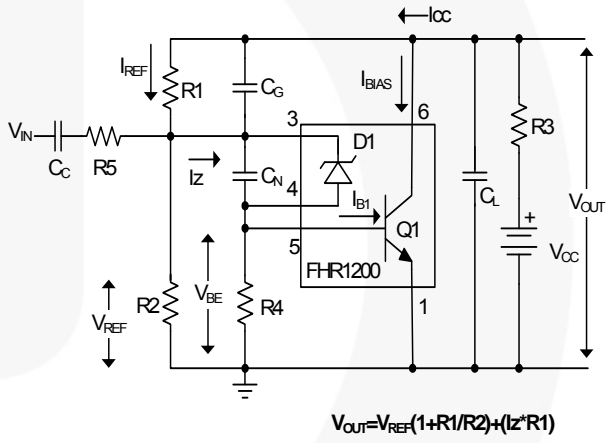


Figure 7. Test Configured: $V_{REF} < V_{OUT}$ with Capacitance

$$V_{OUT} = V_{REF}(1 + R1/R2) + (I_Z * R1)$$

Typical Characteristics: V_{REF}

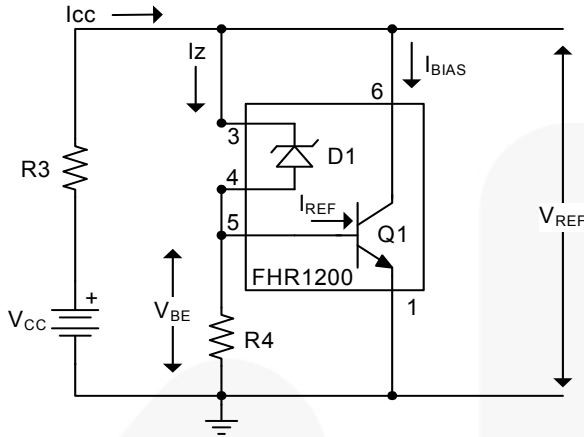


Figure 8. Test Diagram: $V_{REF} = V_{OUT}$ (Fixed Value of R_4)

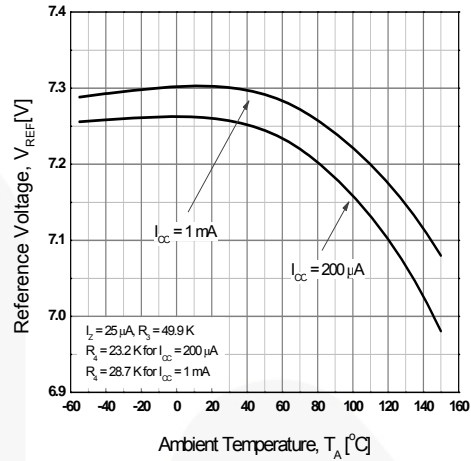


Figure 9. Reference Voltage vs. Ambient Temperature (Fixed Value R_4 , $I_z \sim 25 \mu A$ at $25^\circ C$)

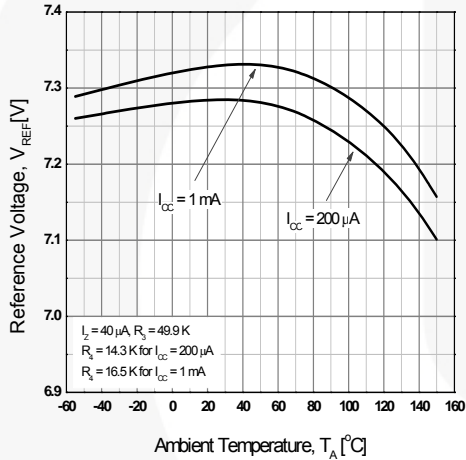


Figure 10. Reference Voltage vs. Ambient Temperature (Fixed Value R_4 , $I_z \sim 40 \mu A$ at $25^\circ C$)

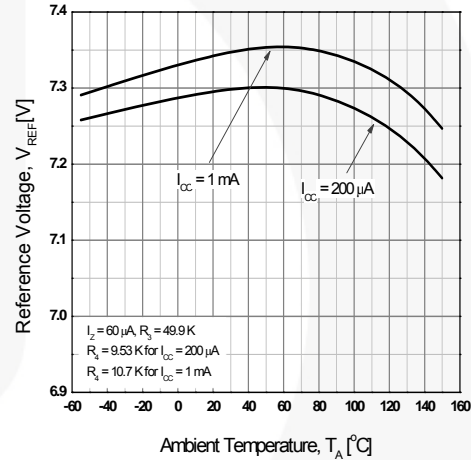


Figure 11. Reference Voltage vs. Ambient Temperature (Fixed Value R_4 , $I_z \sim 60 \mu A$ at $25^\circ C$)

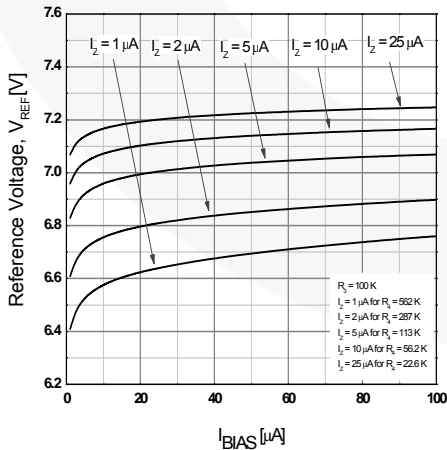


Figure 12. Minimum Cathode Current for Regulation

Typical Characteristics (Continued)

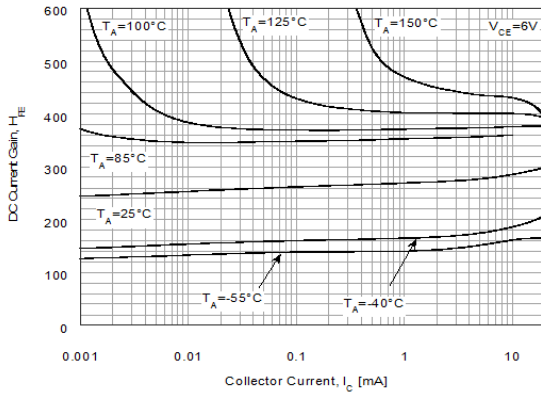


Figure 13. DC Current Gain vs. Collector Current

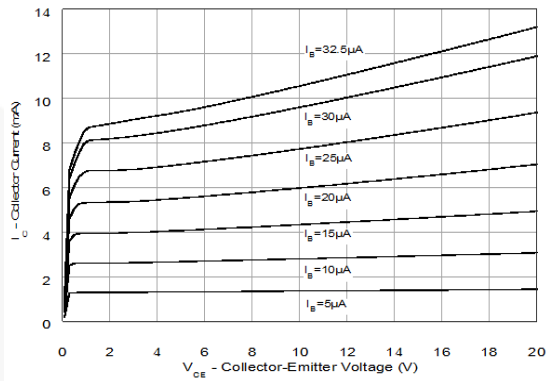


Figure 14. Common Emitter Output Characteristics

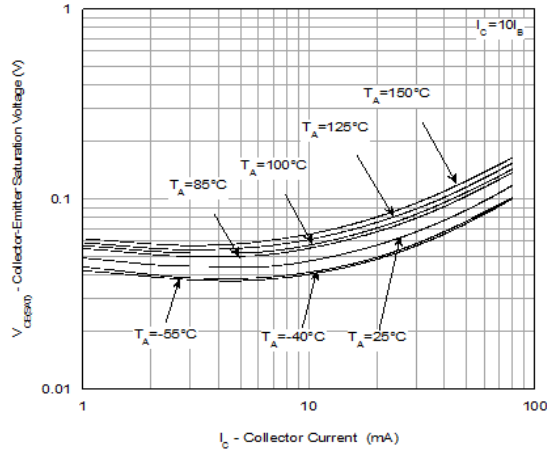


Figure 15. Collection-Emitter Saturation Voltage vs. Collector Current

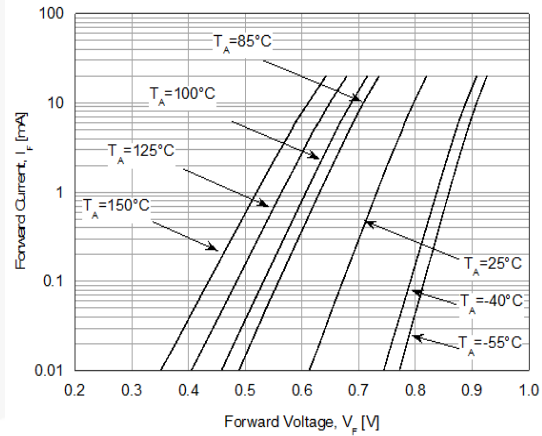


Figure 16. Typical Forward Voltage

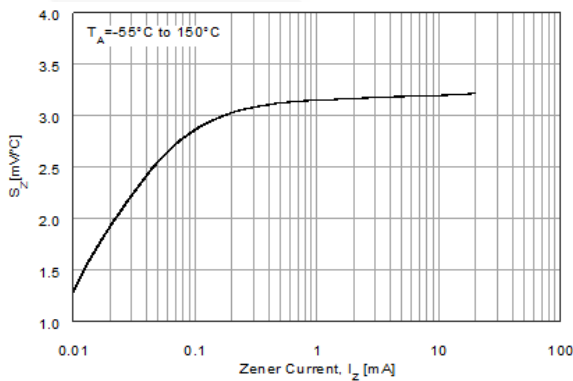


Figure 17. Typical Temperature Coefficient as Function of Working Current

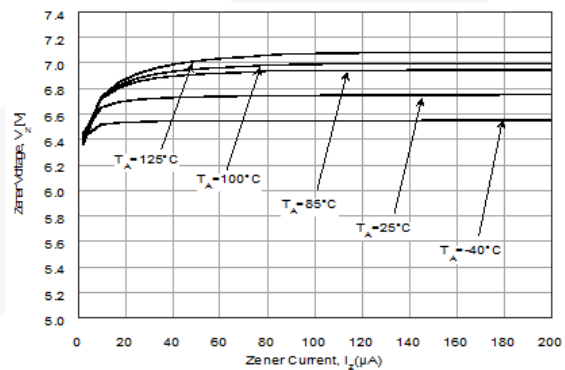


Figure 18. Zener Voltage vs. Applied Current

Typical Characteristics (Continued)

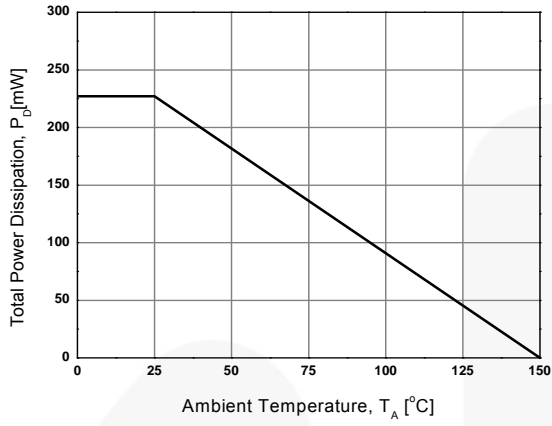


Figure 19. Power Derating

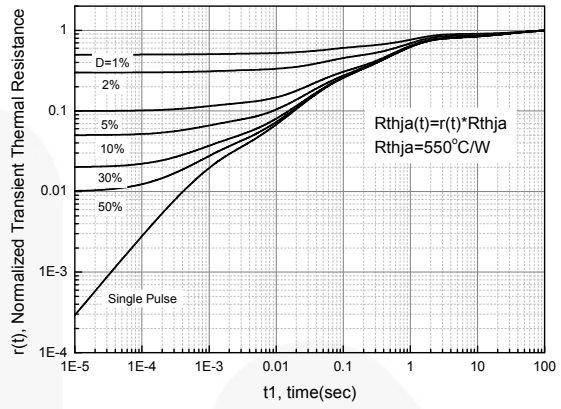


Figure 20. Transient Thermal Resistance

Typical Applications (Continued)

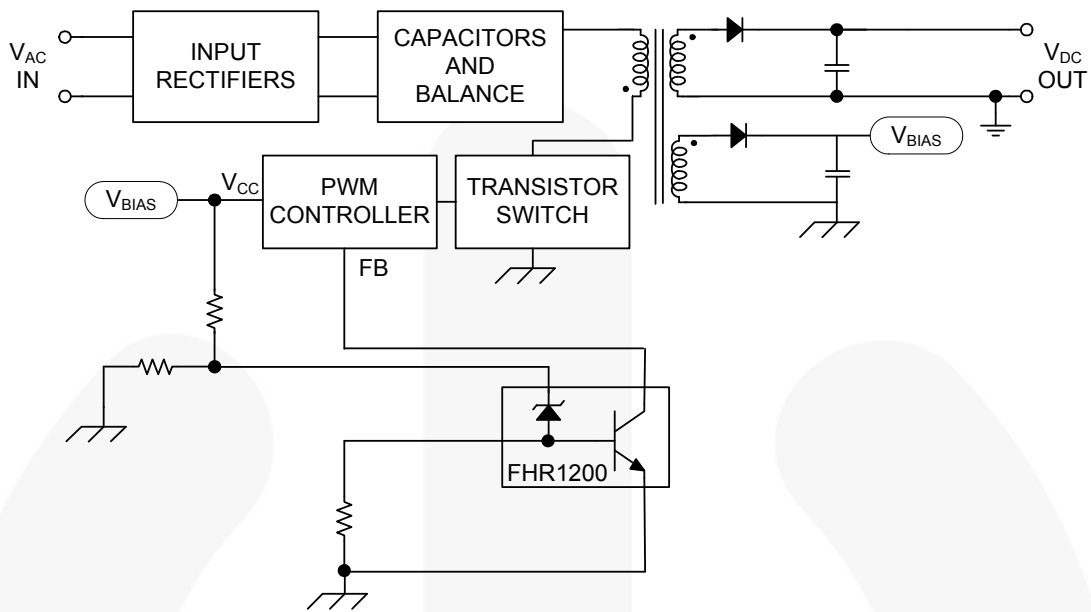


Figure 21. Flyback Power Supply Primary-Side Regulation

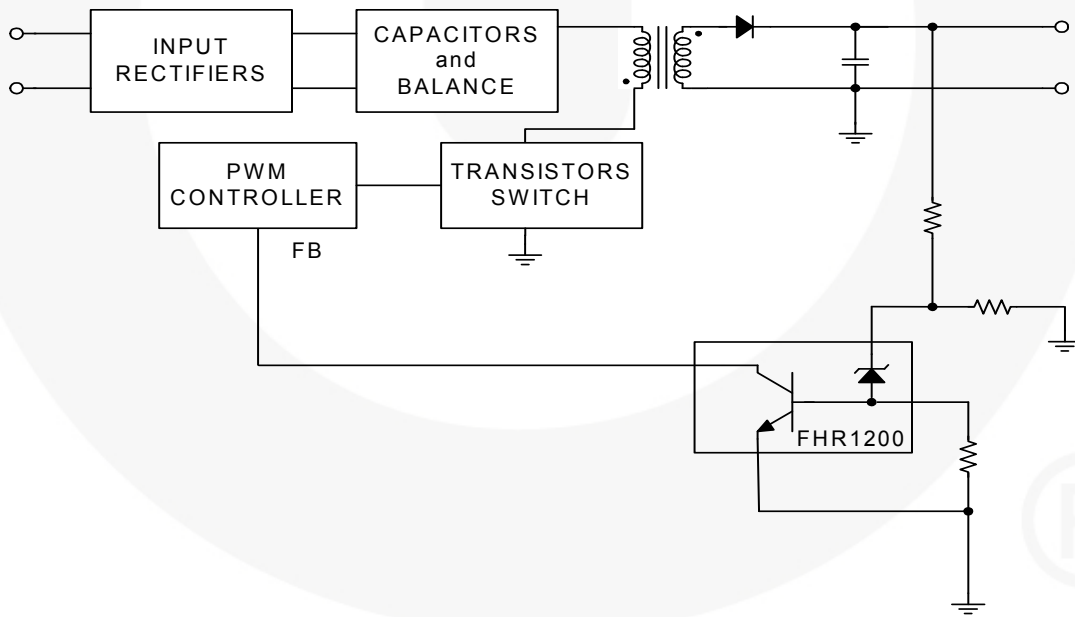


Figure 22. Flyback Power Supply Non-Isolated Secondary-Side Regulation

Physical Dimensions

SC70-6 (SOT363)

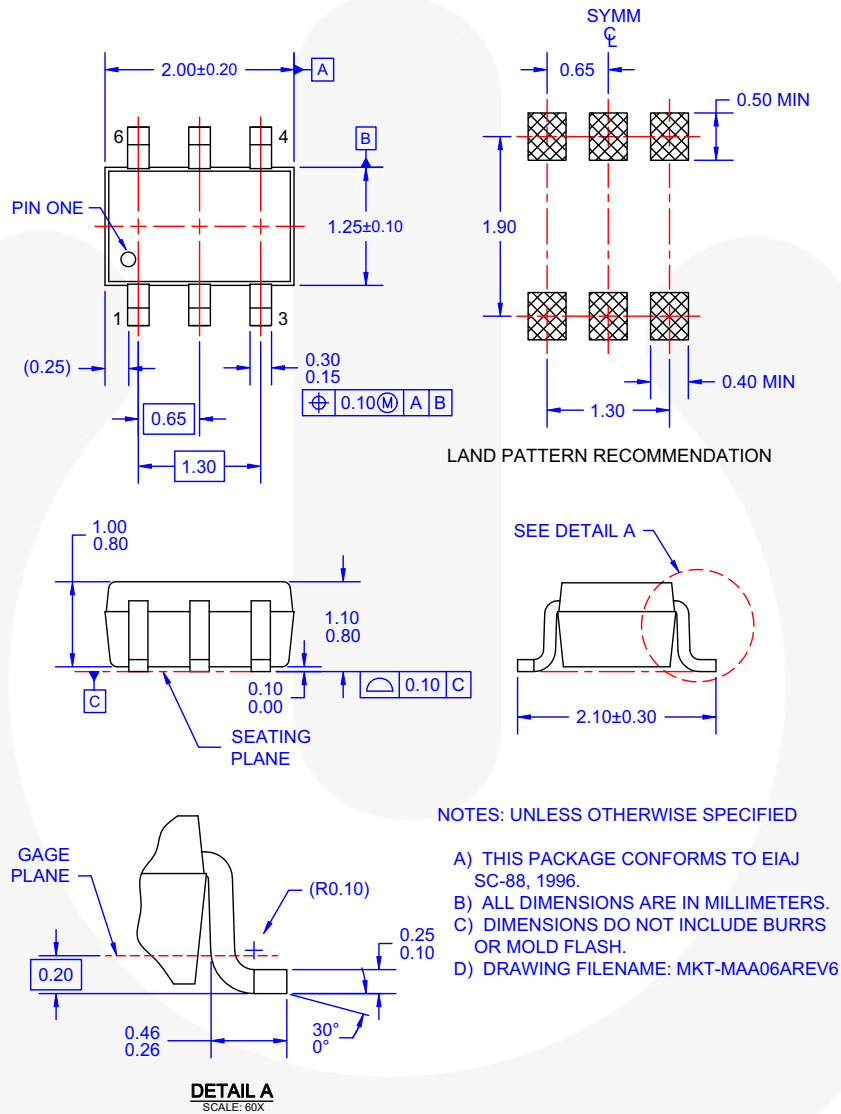


Figure 23. 6-Lead, SC-70, EIAJ SC-88, 1.25 MM WIDE

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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