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July 2013

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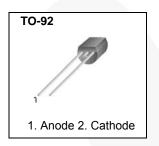
KA33V Voltage Stabilizer

Features

- Low Temperature Coefficient
- Low Dynamic Resistance
- Typical Reference Voltage 33 V

Description

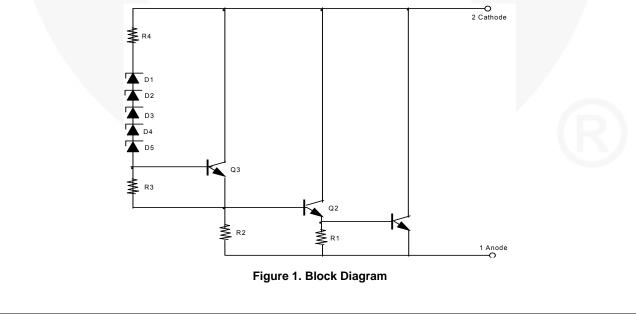
The KA33V is a monolithic integrated voltage stabilizer designed as voltage supplier for electronic tuners.



Ordering Information

Product Number	Operating Temperature Range	Top Mark	Package	Packing Method
KA33VBU	-20 to +75°C	KA33V	TO-92 2L	Bulk
KA33VTA	-2010 +75 C		10-92 2L	Ammo

Block Diagram



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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 $T_A = 25^{\circ}C$ unless otherwise noted.

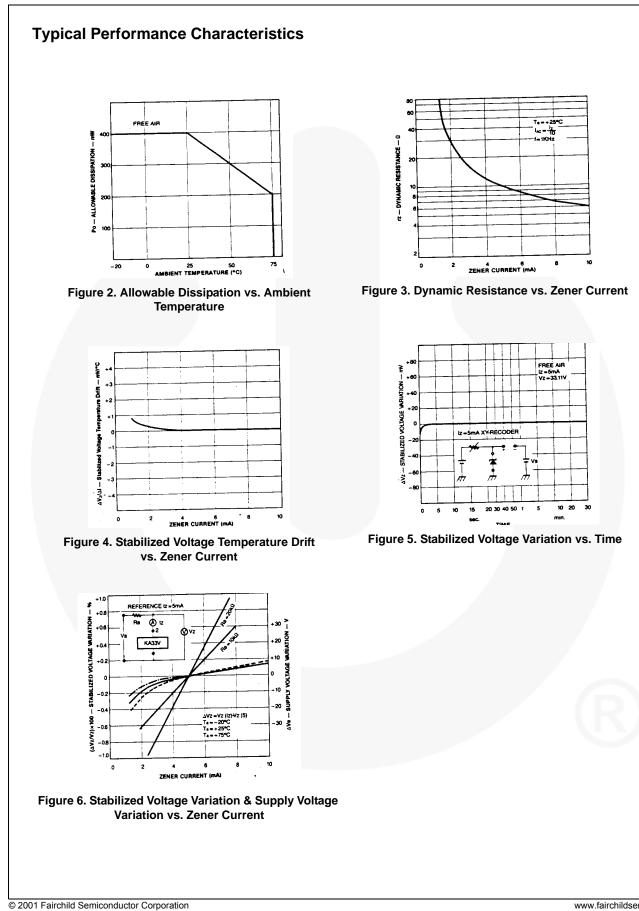
Symbol	Parameter	Value	Unit
Ι _Ζ	Zener Current	10	mA
PD	Power Dissipation ($T_A = 75^{\circ}C$)	200	mW
T _{OPR}	Operating Ambient Temperature Range	-20 to 75	°C
T _{STG}	Storage Temperature Range	-40 to 125	°C

Electrical Characteristics

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

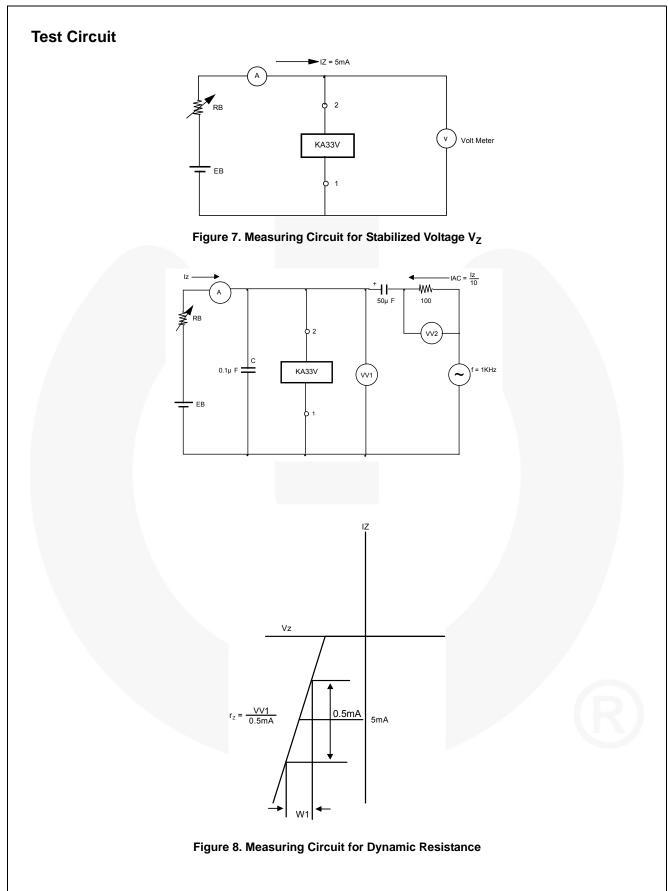
Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
VZ	Stabilized Voltage	I _Z = 5 mA	31		35	V
$\Delta V_Z / \Delta T$	Stabilized Voltage Temperature Drift	I _Z = 5 mA, T _A = -20 to 75°C	-1	0	1	mV/°C
R _Z	Dynamic Resistance	I _Z = 5 mA, f = 1 kHz		10	25	

KA33V — Voltage Stabilizer

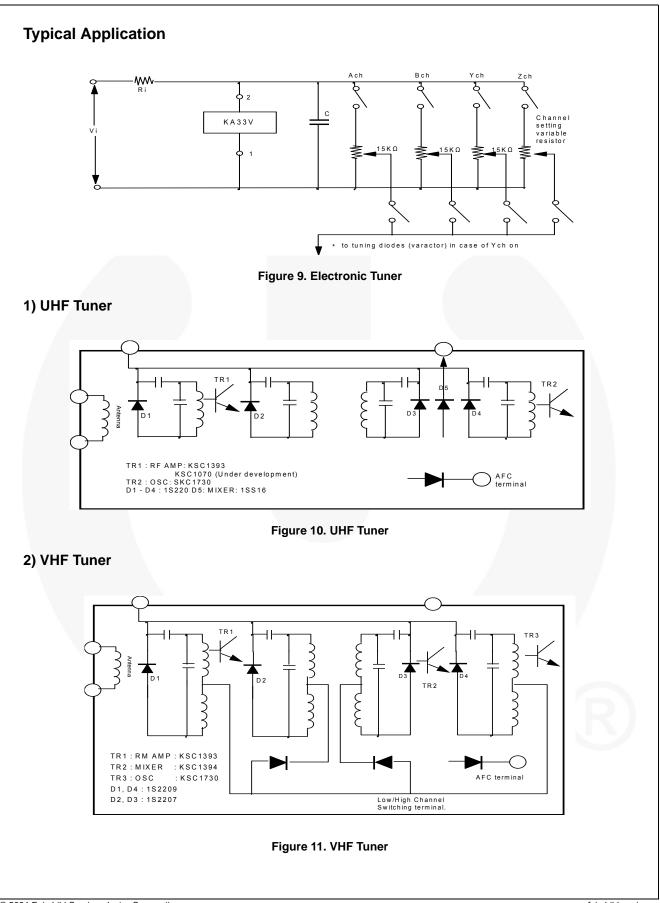


KA33V Rev. 1.1.0



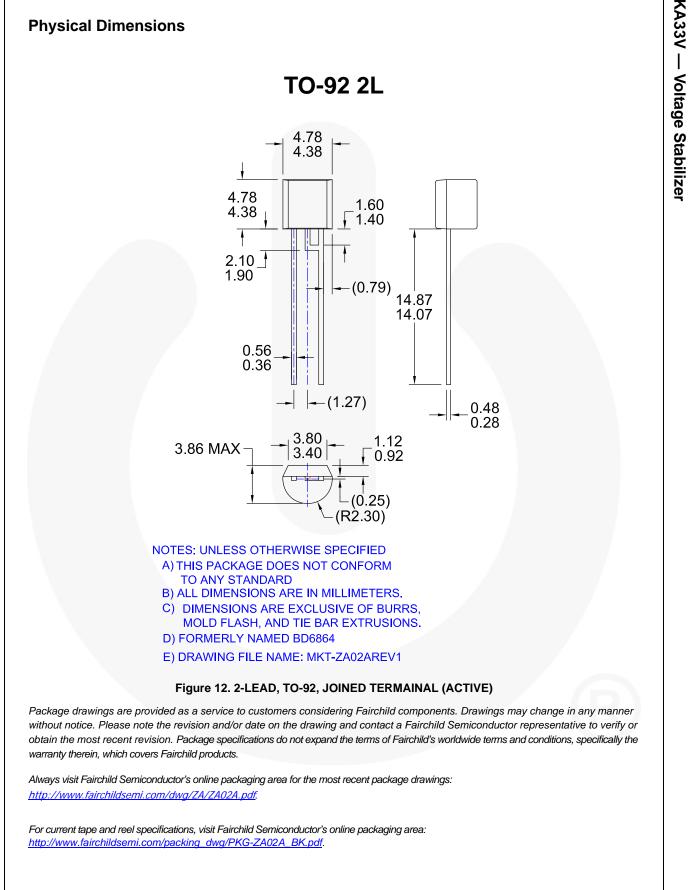


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KA33V — Voltage Stabilizer



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Product Status	Definition
Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.
Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.
-	Formative / In Design First Production Full Production

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