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July 2013

FAIRCHILD

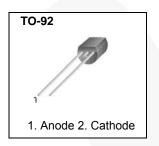
## KA33V Voltage Stabilizer

### Features

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

### Description

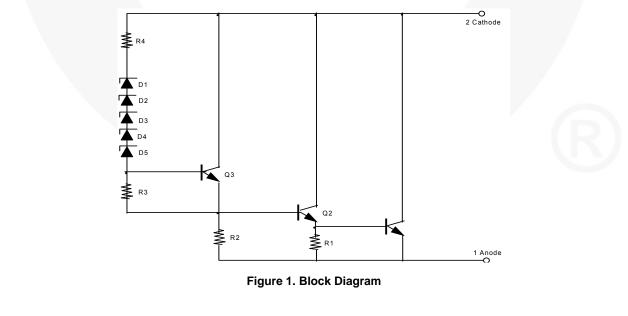
The KA33V is a monolithic integrated voltage stabilizer designed as voltage supplier for electronic tuners.



## **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**



## **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.

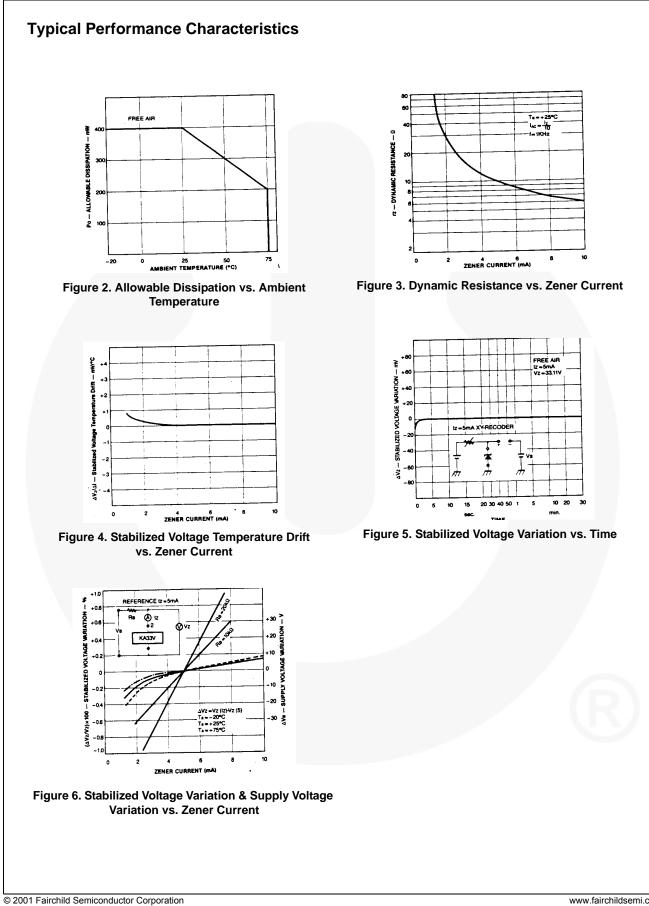
Symbol	Parameter	Value	Unit
Ι <sub>Ζ</sub>	Zener Current	10	mA
PD	Power Dissipation ( $T_A = 75^{\circ}C$ )	200	mW
T <sub>OPR</sub>	Operating Ambient Temperature Range	-20 to 75	°C
T <sub>STG</sub>	Storage Temperature Range	-40 to 125	°C

## **Electrical Characteristics**

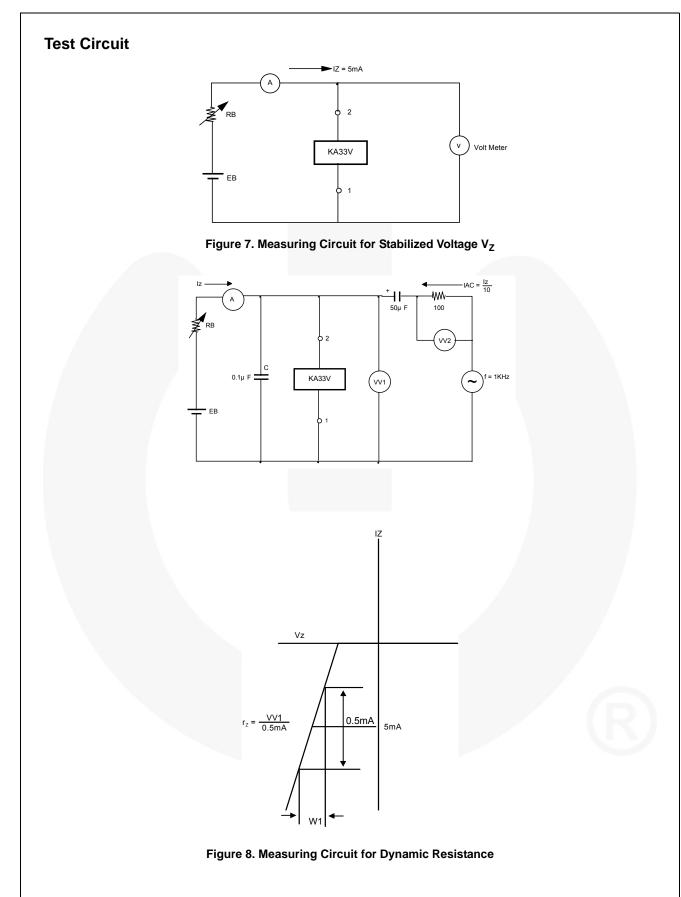
Values are at  $T_A = 25^{\circ}C$  unless otherwise noted.

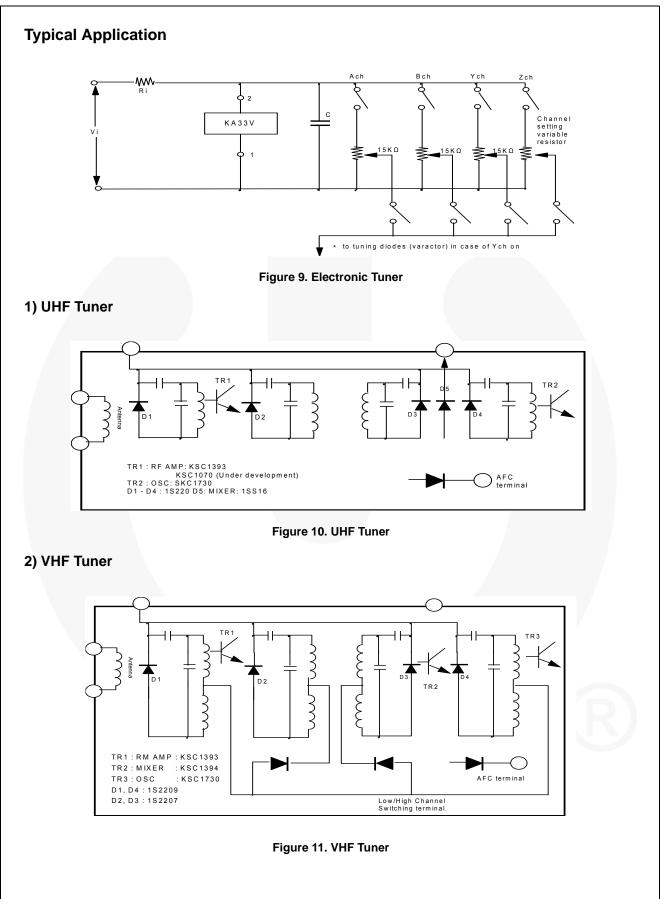
Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
VZ	Stabilized Voltage	I <sub>Z</sub> = 5 mA	31		35	V
$\Delta V_Z / \Delta T$	Stabilized Voltage Temperature Drift	I <sub>Z</sub> = 5 mA, T <sub>A</sub> = -20 to 75°C	-1	0	1	mV/°C
R <sub>Z</sub>	Dynamic Resistance	I <sub>Z</sub> = 5 mA, f = 1 kHz		10	25	

KA33V — Voltage Stabilizer



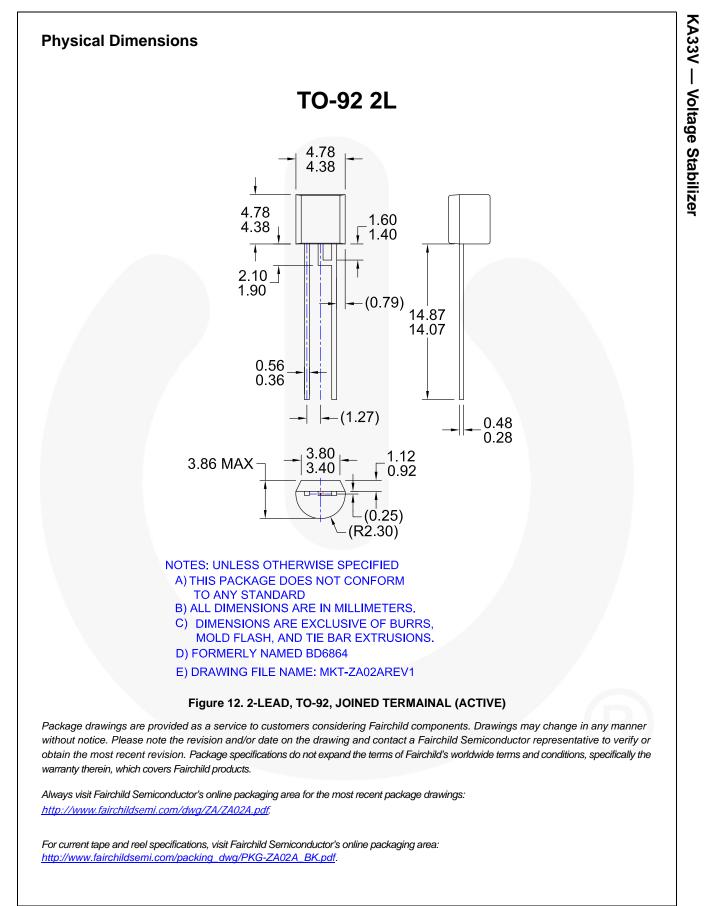






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KA33V — Voltage Stabilizer



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Datasheet Identification	Product Status	Definition
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Preliminary	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.
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