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July 2013

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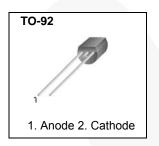
KA33V Voltage Stabilizer

Features

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

Description

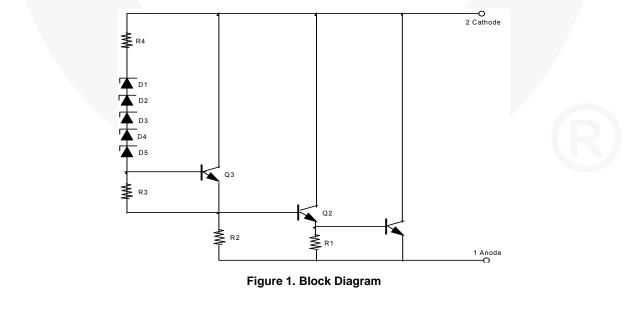
The KA33V is a monolithic integrated voltage stabilizer designed as voltage supplier for electronic tuners.



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



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.

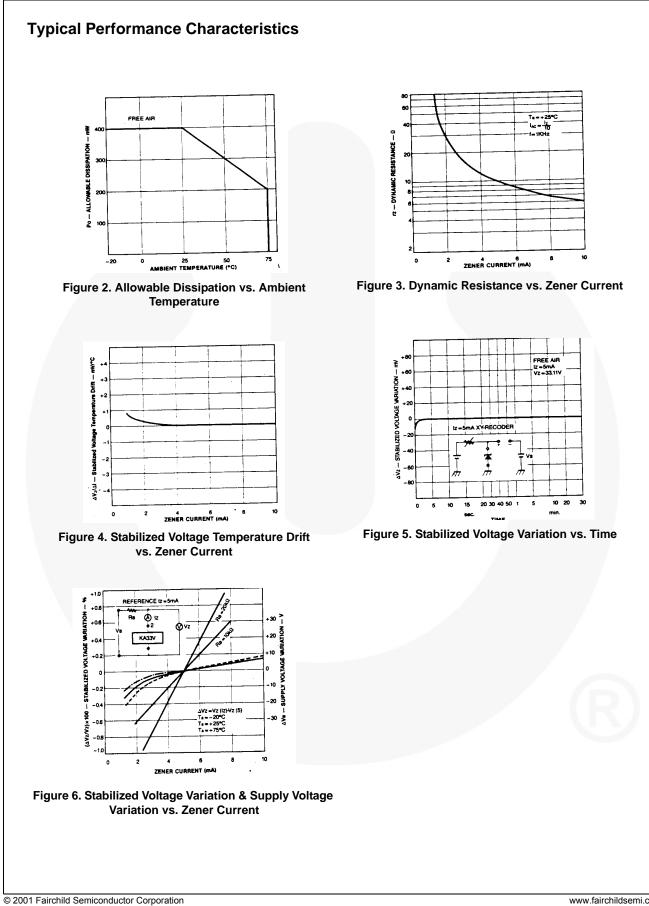
| Symbol | Parameter | Value | Unit |
|------------------|---|------------|------|
| Ι _Ζ | Zener Current | 10 | mA |
| PD | Power Dissipation ($T_A = 75^{\circ}C$) | 200 | mW |
| T _{OPR} | Operating Ambient Temperature Range | -20 to 75 | °C |
| T _{STG} | Storage Temperature Range | -40 to 125 | °C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

Electrical Characteristics

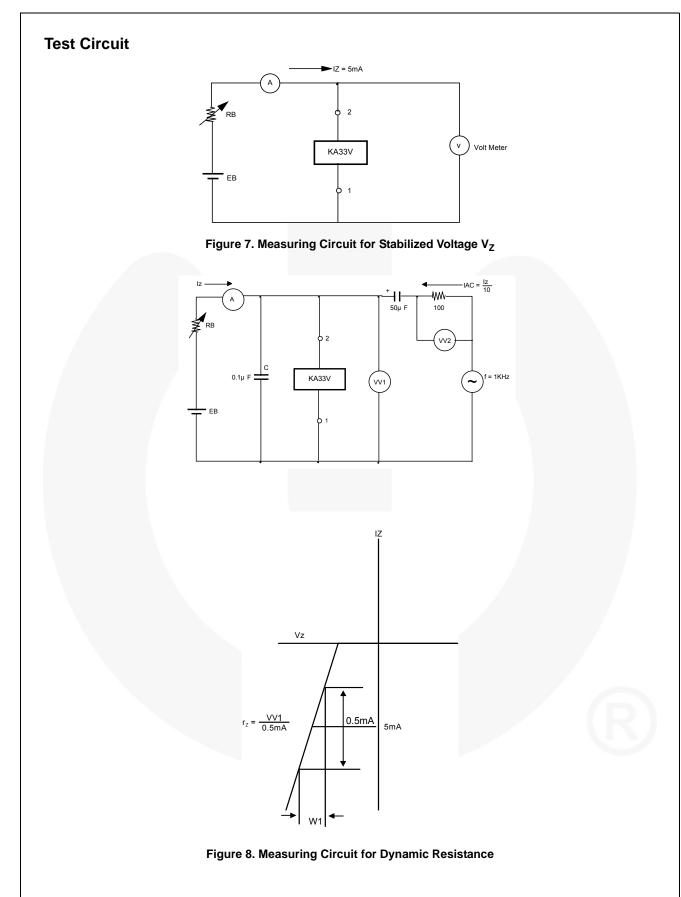
Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

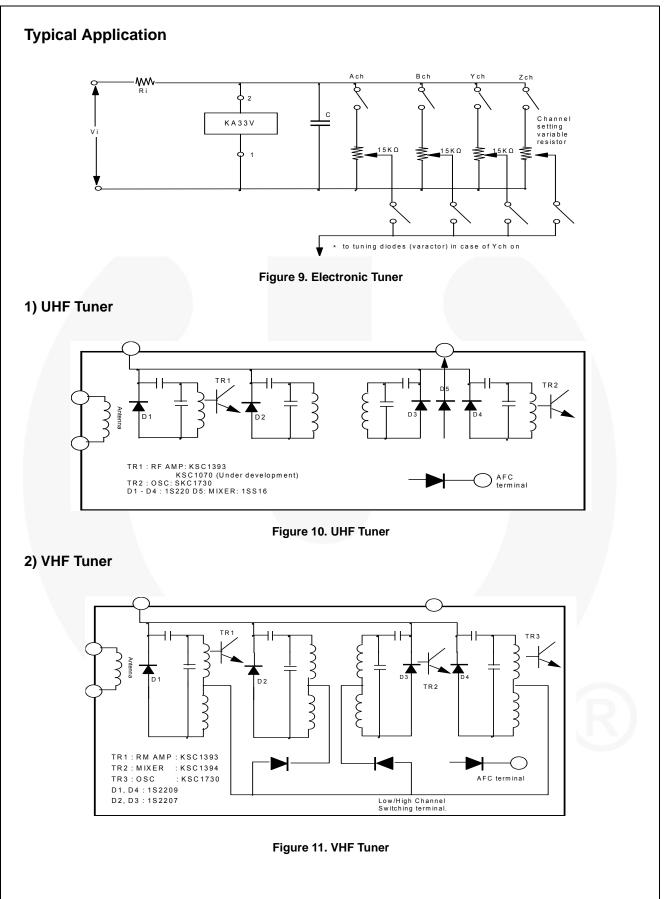
| Symbol | Parameter | Conditions | Min. | Тур. | Max. | Unit |
|-------------------------|--------------------------------------|--|------|------|------|-------|
| VZ | Stabilized Voltage | I _Z = 5 mA | 31 | | 35 | V |
| $\Delta V_Z / \Delta T$ | Stabilized Voltage Temperature Drift | I _Z = 5 mA, 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



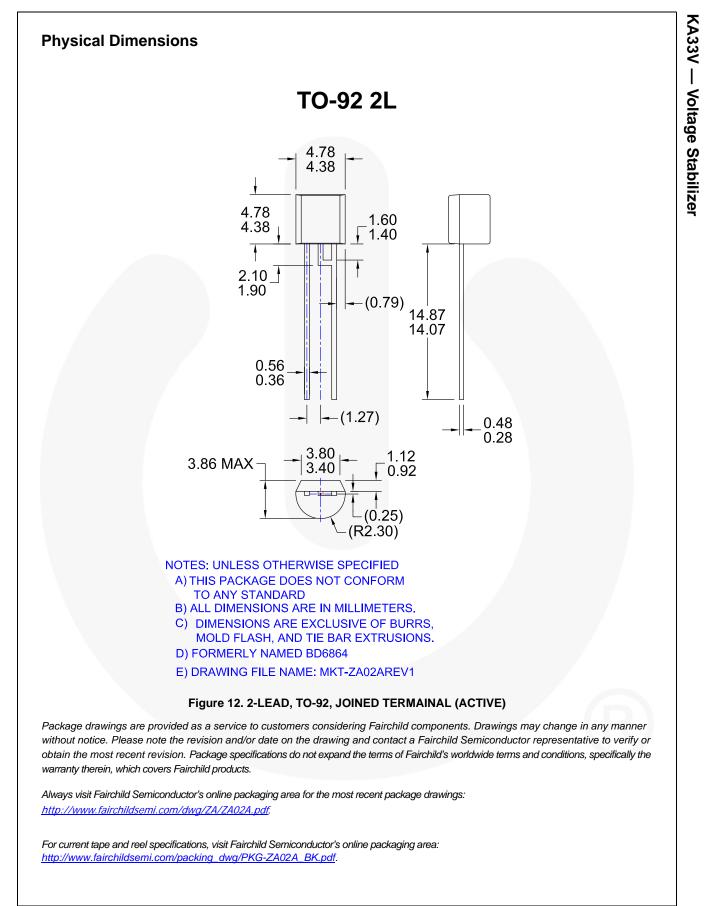






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KA33V — Voltage Stabilizer



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|--------------------------|-----------------------|--|
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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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