

KA33V

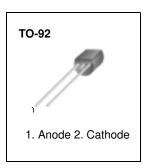
Voltage Stabilizer

Features

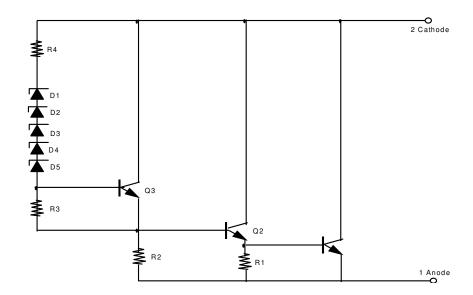
- Low Temperature Coefficient
- Low Dynamic Resistance
- Typical Reference Voltage of 33V

Description

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



Schematic Diagram



Absolute Maximum Ratings (T_{A= 25°C)}

Parameter	Symbol	Value	Unit
Zener Current	lz	10	mA
Power Dissipation (T _A = 75°C)	PD	200	mW
Operating Ambient Temperature Range	Topr	-20 ~ 75	°C
Storage Temperature Range	TSTG	-40 ~ 125	°C

Electrical Characteristics (TA = 25°C)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Stabilized Voltage	VZ	$I_Z = 5mA$	31		35	V
Stabilized Voltage-Temperature Drift	ΔVZ/ΔΤ	Iz = 5mA T _A = -20 to 75°C	-1	0	1	mV/°C
Dynamic Resistance	Rz	Iz = 5mA, f = 1KHz	-	10	25	-

Measuring Circuits

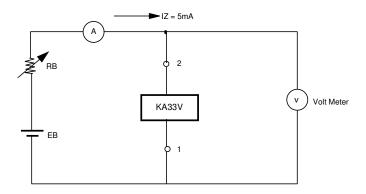
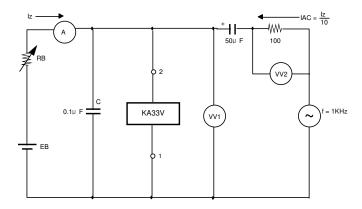


Figure 1. Measuring Circuit for Stabilized Voltage Vz



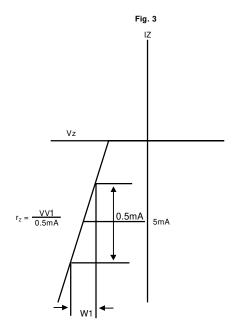
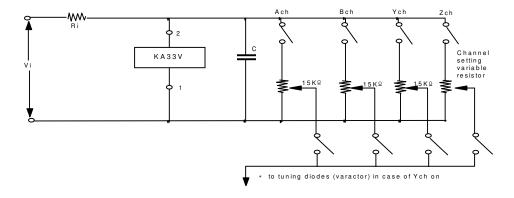
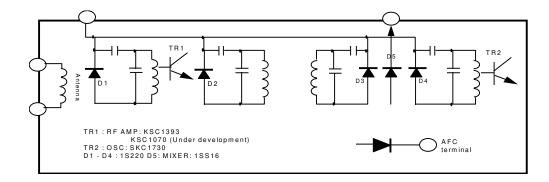


Figure 2. Measuring Circuit for Dynamic Resistance

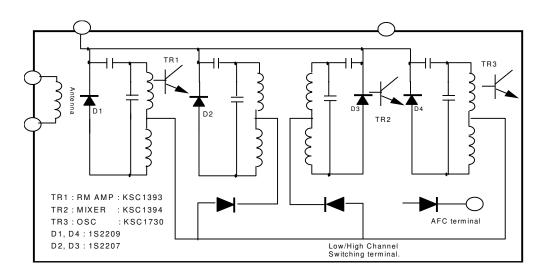
Typical Application



1) UHF Tuner



2) VHF Tuner



Power-temperature Derating Durve Typical Characteristic Curves

 $(TA = 25^{\circ}C)$

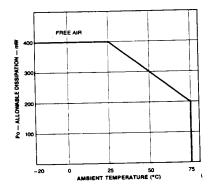


Figure 7. Allowable Dissipation vs.

Amblent Temperature

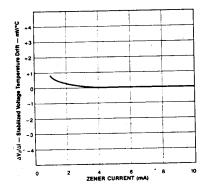


Figure 9. Stabilized Voltage Temperature Drift vs. Zener Current

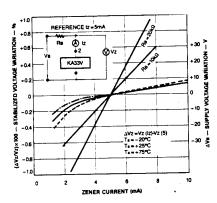


Figure 11. Stabilized Voltage Variation & Supply Voltage Variation vs. Zener Current

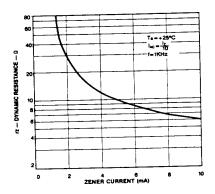


Figure8. Dynamic Resistance vs. Zener Current

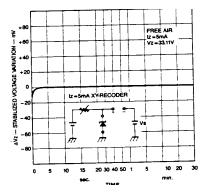


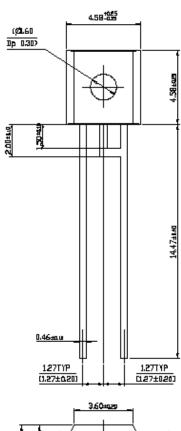
Figure 10. Stabilized Voliage Variation vs. Time

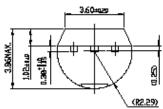
Mechanical Dimensions

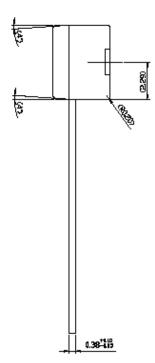
Package

Dimensions in millimeters

TO-92







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Ordering Information

Product Number	Package	Operating Temperature
KA33V	TO-92	

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KA33V

Voltage Stabilizer

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General description

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

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Features

- Low Temperature Coefficient
- Low Dvnamic Resistance
- Typical Reference Voltage of 33V

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Product status/pricing/packaging

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Product	Product status	Pb-free Status	Pricing*	Package type	Leads	Packing method
KA33VTA	Full Production	Full Production	\$0.158	<u>TO-92</u>	3	АММО

^{*} Fairchild 1,000 piece Budgetary Pricing

^{**} A sample button will appear if the part is available through Fairchild's on-line samples program. If there is no sample button, please contact a Fairchild distributor to obtain samples



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