



UAS16V

Preliminary

LINEAR INTEGRATED CIRCUIT

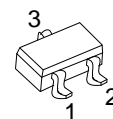
WIDE OPERATING VOLTAGE RANGE REGULATOR TRANSISTOR

DESCRIPTION

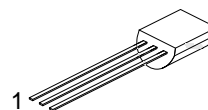
The IC is a wide operating range regulator transistor of fixed output voltage 15.5V.

FEATURES

- * Operating voltage range: 20V ~ 80V
- * Fixed output voltage: 15.5V @ 25°C



SOT-23-3
(JEDEC TO-236)

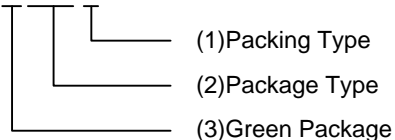


TO-92

ORDERING INFORMATION

Ordering Number		Package	Packing
Lead Free	Halogen Free		
UAS16VL-AE2-R	UAS16VG-AE2-R	SOT-23-3	Tape Reel
UAS16VL-T92-B	UAS16VG-T92-B	TO-92	Tape Box
UAS16VL-T92-K	UAS16VG-T92-K	TO-92	Bulk

UAS16VG-AE2-R

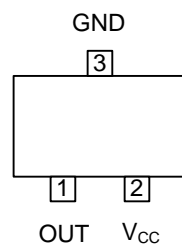


- (1) R: Tape Reel, B: Tape Box, K: Bulk
- (2) AE2: SOT-23-3, T92: TO-92
- (3) G: Halogen Free and Lead Free, L: Lead Free

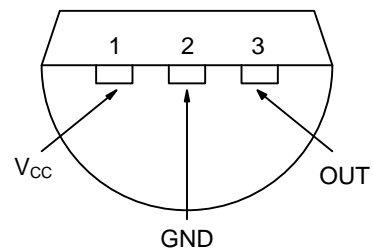
MARKING

SOT-23-3	TO-92

PIN CONFIGURATIONS



SOT-23-3

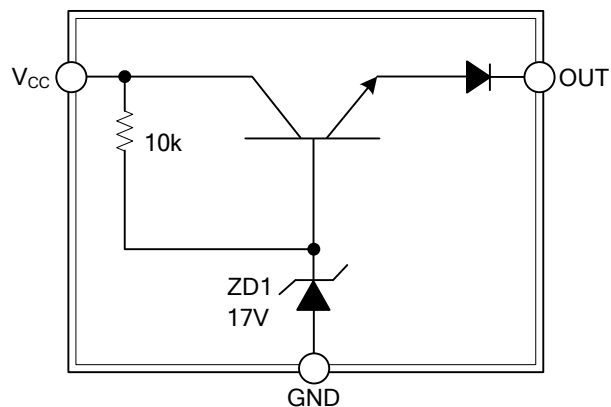


TO-92

PIN DESCRIPTION

PIN NO.		PIN NAME	DESCRIPTION
SOT-23-3	TO-92		
1	3	OUT	Output
2	1	V _{CC}	Power Supply
3	2	GND	Ground

BLOCK DIAGRAM



■ ABSOLUTE MAXIMUM RATING

PARAMETER		SYMBOL	RATINGS	UNIT
Input Voltage		V_{CC}	80	V
Output Current		I_O	0.055	A
Power Dissipation	SOT-23-3	P_D	0.300	W
	TO-92		0.625	W
Operating Temperature		T_J	-40 ~ +125	°C
Storage Temperature		T_{STG}	-60 ~ +150	°C

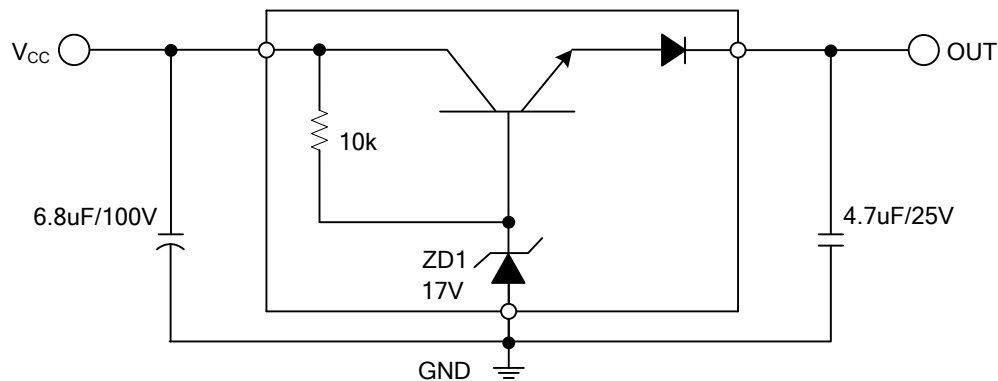
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS

($T_A=25^{\circ}\text{C}$. All voltage referenced to GND unless otherwise specified.)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Supply Voltage	V_{CC}	Operating Voltage	20		80	V
Power Supply Current	I_{CC}	$V_{CC}=40\text{V}$		2.2	3	mA
		$V_{CC}=80\text{V}$		6.2	8.5	mA
Output Voltage	V_{OUT}	$V_{CC}=40\text{V}$, $I_{OUT}=1\text{mA}$	14.7	15.5	16.3	V
		$V_{CC}=40\text{V}$, $I_{OUT}=10\text{mA}$	14.6	15.4	16.2	V
		$V_{CC}=80\text{V}$, $I_{OUT}=1\text{mA}$	15.1	15.9	16.7	V
		$V_{CC}=80\text{V}$, $I_{OUT}=10\text{mA}$	14.8	15.6	16.4	V

■ TYPICAL APPLICATION CIRCUIT



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