



UAS16V

LINEAR INTEGRATED CIRCUIT

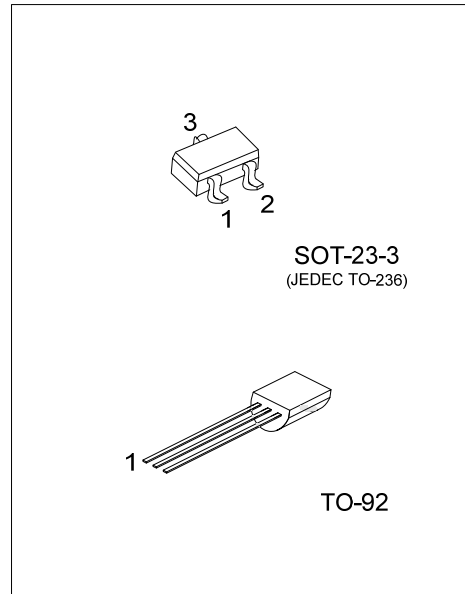
WIDE OPERATING VOLTAGE RANGE REGULATOR TRANSISTOR

■ DESCRIPTION

The IC is a wide operating range regulator transistor of fixed output voltage 16.1V.

■ FEATURES

- * Operating voltage range: 20V ~ 80V
- * Fixed output voltage: 16.1V @ 25°C



■ ORDERING INFORMATION

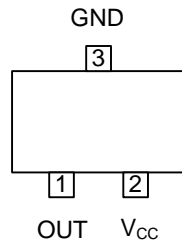
Ordering Number		Package	Packing
Lead Free	Halogen Free		
UAS16VL-AE2-R	UAS16VG-AE2-R	SOT-23-3	Tape Reel
UAS16VL-T92-B	UAS16VG-T92-B	TO-92	Tape Box
UAS16VL-T92-K	UAS16VG-T92-K	TO-92	Bulk

<p>UAS16VG-AE2-R</p>	<p>(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</p>
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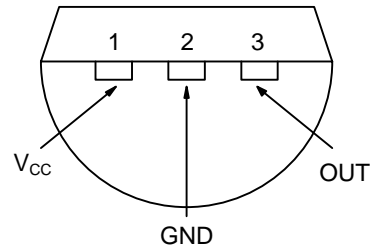
■ MARKING

SOT-23-3	TO-92

■ PIN CONFIGURATIONS



SOT-23-3

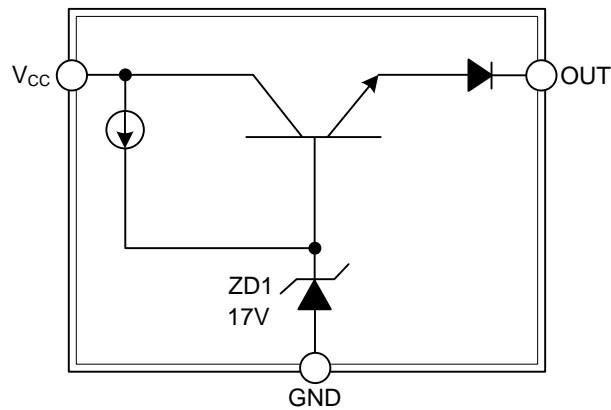


TO-92

■ 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 ($V_{CC}=30V$)	I_o	0.015	A
Power Dissipation	SOT-23-3	P_D	0.300
	TO-92		0.625
Operating Temperature	T_J	-40 ~ +125	°C
Storage Temperature	T_{STG}	-60 ~ +150	°C

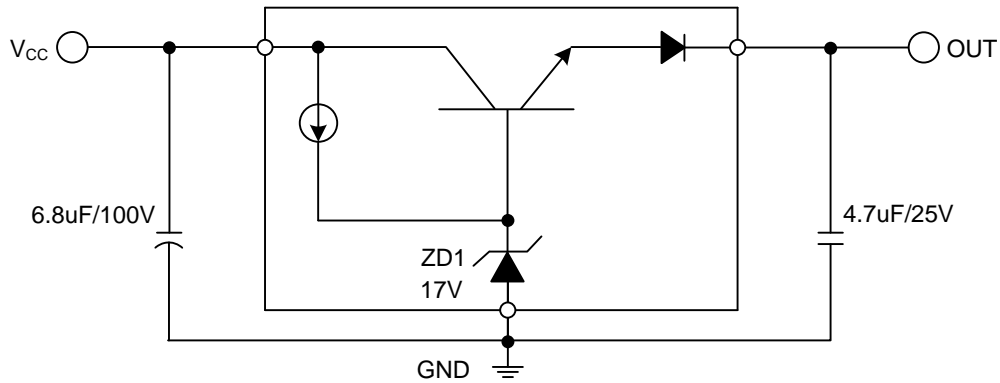
Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS

($T_A=25^\circ C$. 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}	$V_{CC}=40V$		0.15	0.4	mA
		$V_{CC}=80V$		0.2	0.45	mA
Output Voltage	V_{OUT}	$V_{CC}=40V, I_{OUT}=1mA$	15.4	16.2	17.0	V
		$V_{CC}=40V, I_{OUT}=10mA$	15.3	16.1	16.9	V
		$V_{CC}=80V, I_{OUT}=1mA$	15.5	16.3	17.1	V
		$V_{CC}=80V, I_{OUT}=10mA$	15.4	16.2	17.0	V

■ TYPICAL APPLICATION CIRCUIT



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