

Features

- Wide Input Voltage Range: 3 V to 36 V
- Fixed Output Voltage:
 - 1.25 V, 2.048 V, 2.5 V, 3 V, 3.3 V, 4.096 V, 5 V
- High Initial Accuracy:
 - Basic Series: 0.1% Maximum
 - E Series: 0.05% Maximum
- Low Temperature Coefficient
 - Basic Series: 15 ppm/°C Maximum
 - E Series: 10 ppm/°C Maximum
- Low Output Noise: 10 μ Vpp/V
- Low Power Consumption
 - Quiescent Current: 240 μ A Maximum
 - Shutdown Current: 10 μ A Maximum
- Stable with 0.1 to 100 μ F Capacitive Loads
- Package Options:
 - SOT23-6
 - MSOP8
 - SOT23G-3

Applications

- Automotive ADAS, Surround-View Cameras
- Automotive Power Train, Transmission
- Automotive Battery Management System

Description

The TPR36 series is a family of high-precision and low-temperature-drift voltage references designed for automotive applications. The TPR36 supports a wide operating voltage range from 3 V to 36 V, with an absolute maximum rating of 45 V. It can support both sinking current and sourcing current of 10 mA with a low dropout voltage.

The TPR36 operates with an initial accuracy of 0.1% and a temperature coefficient of 10 ppm/°C and 15 ppm/°C. The high precision feature makes the TPR36 series an ideal voltage reference in the high-resolution automotive systems.

The TPR36 provides SOT23-6, MSOP8 and SOT23G-3 packages with a wide range of output voltages.

Typical Application Circuit

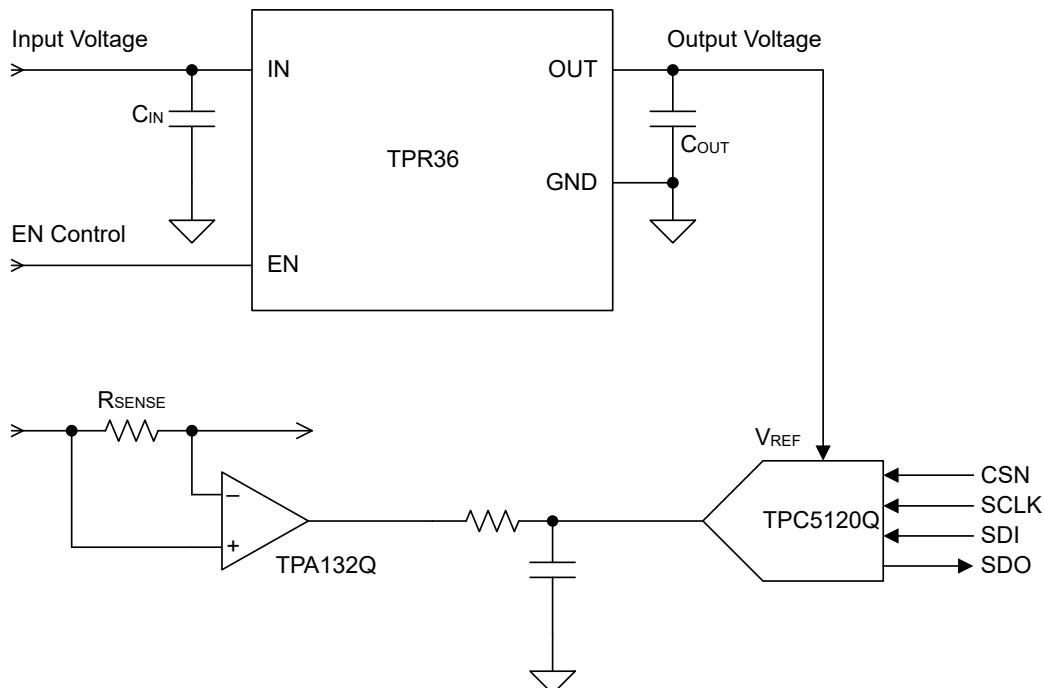


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Product Family Table

Order Number	Output Voltage (V)	Package
TPR36xx-S6TR-S	1.25/2.048/2.5/3/3.3/4.096/5	SOT23-6
TPR36xx-VS1R-S	1.25/2.048/2.5/3/3.3/4.096/5	MSOP8
TPR36Exx-S6TR-S	1.25/2.048/2.5/3/3.3/4.096/5	SOT23-6
TPR36Exx-VS1R-S	1.25/2.048/2.5/3/3.3/4.096/5	MSOP8
TPR36xx-3STR-S	1.25/2.048/2.5/3/3.3/4.096/5	SOT23G-3
TPR36Exx-3STR-S	1.25/2.048/2.5/3/3.3/4.096/5	SOT23G-3

Revision History

Date	Revision	Notes
2026-06-15	Rev.A.0	Initial release.

Pin Configuration and Functions

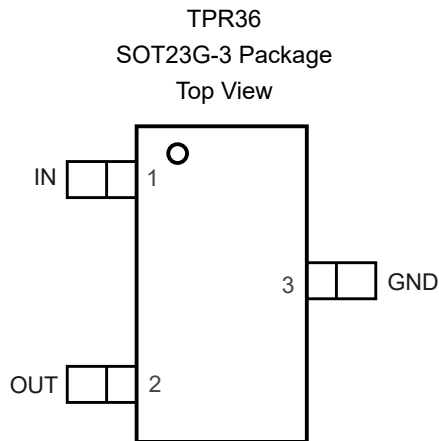
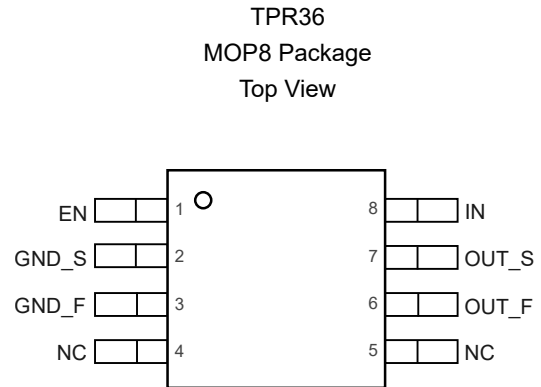
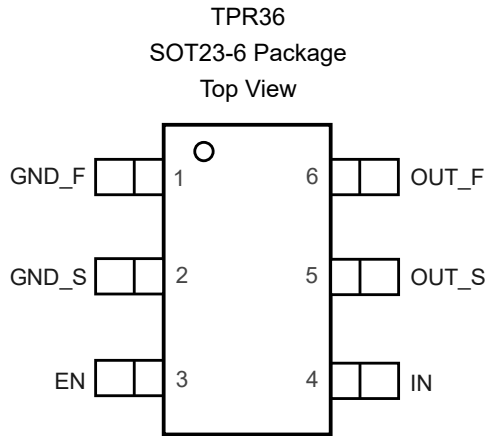


Table 1. Pin Functions: TPR36

Pin No.			Name	I/O	Description
SOT23-6	MSOP8	SOT23G-3			
3	1	-	EN	I	Enable pin. Pull this pin high for normal operation and pull this pin low to enter the shutdown mode.
1	3	3	GND_F	—	Ground reference force pin.
2	2	3	GND_S	—	Ground reference sense pin.
4	8	1	IN	I	Supply voltage input pin.
—	5, 6	-	NC	—	No connection.
6	6	2	OUT_F	O	Reference voltage output force pin.
5	7	2	OUT_S	O	Reference voltage output sense pin.

Precision Voltage Reference for Automotive

Specifications

Absolute Maximum Ratings ⁽¹⁾ ⁽²⁾ ⁽³⁾

Parameter		Min	Max	Unit
V _{IN}	Supply Voltage	−0.3	40	V
V _{EN}	Enable Voltage	−0.3	40	V
V _{OUT}	Output Voltage	−0.3	6	V
T _J	Junction Temperature Range	−40	150	°C
T _A	Operating Temperature Range	−40	125	°C
T _{STG}	Storage Temperature Range	−65	150	°C
T _L	Lead Temperature (Soldering 10 sec)		260	°C

(1) Stresses beyond those listed under Absolute Maximum Ratings may cause permanent damage to the device. Exposure to any Absolute Maximum Rating condition for extended periods may affect device reliability and lifetime.

(2) All voltage values are with respect to GND.

(3) Specified by design. Not subject to production test.

ESD, Electrostatic Discharge Protection

Symbol	Parameter	Condition	Minimum Level	Unit
HBM	Human Body Model ESD	ANSI/ESDA/JEDEC JS-001 ⁽¹⁾	±2	kV
CDM	Charged Device Model ESD	ANSI/ESDA/JEDEC JS-002 ⁽²⁾	±1	kV

(1) JEDEC document JEP155 states that 500-V HBM allows safe manufacturing with a standard ESD control process.

(2) JEDEC document JEP157 states that 250-V CDM allows safe manufacturing with a standard ESD control process.

Recommended Operating Conditions

Parameter		Min	Max	Unit
V _{IN}	Supply Voltage	3	36	V
V _{EN}	Enable Voltage	0	V _{IN}	V
I _{OUT}	Output Current	−10	10	mA
T _A	Operating Temperature Range	−40	125	°C

Thermal Information

Package Type	θ _{JA}	θ _{JC, TOP}	θ _{JB}	Unit
SOT23-6	150	110	60	°C/W
MSOP8	138	54	84	°C/W
SOT23G-3	250	81	42	°C/W

Electrical Characteristics

All test condition: $V_{IN} = V_{IN(MIN)}$ ⁽¹⁾, $I_{OUT} = 0$, $C_{IN} = 0.1 \mu F$, $C_{OUT} = 10 \mu F$, minimum and maximum specifications at $T_A = -40^\circ C$ to $125^\circ C$; Typical specifications at $T_A = 25^\circ C$, unless otherwise noted.

Parameter		Conditions	Min	Typ	Max	Unit
Output Voltage						
V _{OUT}	Output Voltage	TPR3612, TPR36E12		1.25		V
		TPR3620, TPR36E20		2.048		V
		TPR3625, TPR36E25		2.5		V
		TPR3630, TPR36E30		3		V
		TPR3633, TPR36E33		3.3		V
		TPR3640, TPR36E40		4.096		V
		TPR3650, TPR36E50		5		V
	Initial Accuracy	Basic series, T _A = 25 °C ⁽¹⁾	−0.1%		+0.1%	
		E Series, T _A = 25 °C ⁽¹⁾	−0.05%		+0.05%	
Output Noise	f = 0.1 Hz to 10 Hz		10		μV _{PP} /V	
Input Voltage and Current						
V _{IN}	Input Voltage ⁽¹⁾		V _{IN,MIN}		36	V
I _Q	Quiescent Current	T _A = 25 °C		140	160	μA
		T _A = -40°C to 125°C		140	190	μA
I _{SD}	Shutdown Current	V _{in} = V _{inmin} , T _A = 25°C		2.3	5	μA
		V _{in} = V _{inmin} , T _A = -40°C to 125°C			5.5	μA
		V _{in} = 36V, T _A = -40°C to 125°C			15	μA
Enable Voltage and Current						
V _{IH,EN}	EN Logic-High Level		1.6		V _{IN}	V
V _{IL,EN}	EN Logic-Low Level		0		0.5	V
I _{EN}	EN Leakage Current	V _{EN} = V _{IN} = 36 V			0.8	μA
Dropout Voltage						
V _{DO}	Minimum Dropout Voltage	I _{OUT} = ±1 mA, T _A = 25 °C			50	mV
		I _{OUT} = ±1 mA, T _A = -40°C to 125°C			100	mV
		I _{OUT} = ±10 mA, T _A = 25 °C			250	mV
		I _{OUT} = ±10 mA, T _A = -40°C to 125°C			500	mV
Output Voltage Temperature Drift						
TC	Temperature Coefficient	T _A = 0 to 70°C			10	ppm/°C
		E Series, T _A = −40°C to 125°C			10	ppm/°C
		Basic series, T _A = −40°C to 125°C			15	ppm/°C
Output Regulation						

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Parameter		Conditions	Min	Typ	Max	Unit
$\frac{\Delta V_{OUT}}{\Delta V_{IN}}$	Line Regulation	$V_{IN} = V_{IN(MIN)}$ to 36 V, $T_A = 25\text{ }^{\circ}\text{C}$		0.2	4	ppm/V
		$V_{IN} = V_{IN(MIN)}$ to 36 V, $T_A = -40^{\circ}\text{C}$ to 125°C		1	5	ppm/V
$\frac{\Delta V_{OUT}}{\Delta I_{OUT}}$	Load Regulation	$V_{IN} = V_{IN(MIN)}$, $-10\text{ mA} < I_{OUT} < 10\text{ mA}$, $T_A = 25\text{ }^{\circ}\text{C}$		1	10	ppm/mA
		$V_{IN} = V_{IN(MIN)}$, $-10\text{ mA} < I_{OUT} < 10\text{ mA}$, $T_A = -40^{\circ}\text{C}$ to 125°C		1	20	ppm/mA
Thermal Hysteresis						
THYS	Thermal Hysteresis	Cycle 1 (+25°C to +125°C to -40°C to 25 °C)		80		ppm
		Cycle 2 (+25°C to +125°C to -40°C to 25 °C)		40		ppm
		Cycle 1 (+25°C to +70°C to 0°C to 25 °C)		40		ppm
		Cycle 2 (+25°C to +70°C to 0°C to 25 °C)		20		ppm
Long-Term Stability						
LTS	Long-Term Stability	SOT23-6, 1000 hours		50		ppm
		SOT23-6, 2000 hours		50		ppm
		MSOP8, 1000 hours		50		ppm
		MSOP8, 2000 hours		50		ppm
Turn-On Settling Time						
t _{ON}	Turn-on Settling Time	C _{OUT} = 1 μF		1000		μs
Short-Circuit Current						
I _{SC}	Short-Circuit Current	V _{OUT} = 0		18	22	mA
Capacitive Load						
C _{OUT}			0.1		100	μF

(1) $V_{IN(MIN)} = V_{OUT(NOM)} + 0.5\text{ V}$ or 3 V, whichever is greater

Typical Performance Characteristics

All test conditions: $V_{IN} = V_{IN,MIN}$, $T_A = +25^{\circ}\text{C}$, unless otherwise noted.

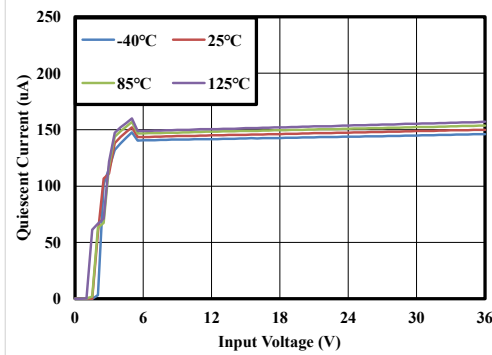


Figure 1. i_q vs Input voltage

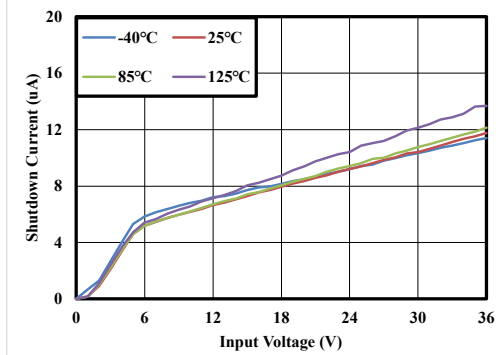


Figure 2. Shutdown Current vs. Input Voltage

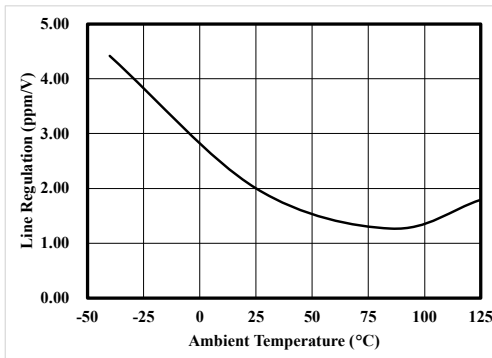


Figure 3. Line Regulation

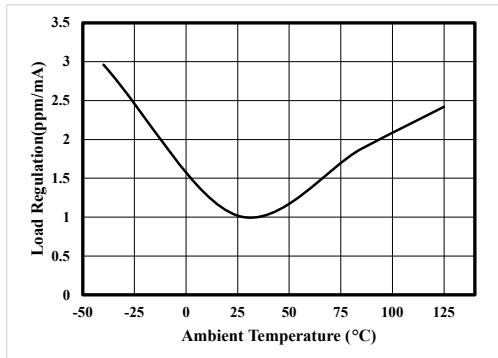


Figure 4. Load Regulation(source current)

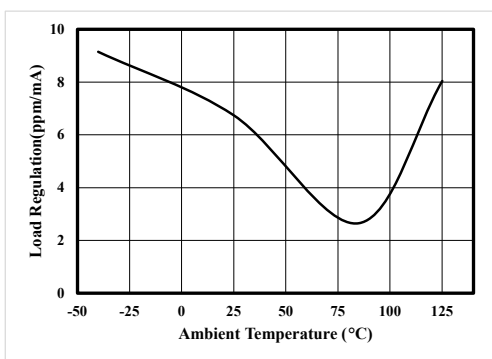


Figure 5. Load Regulation (sink current)

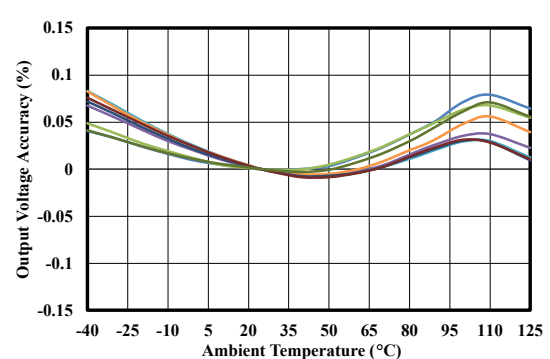


Figure 6. Output Voltage vs. Temperature

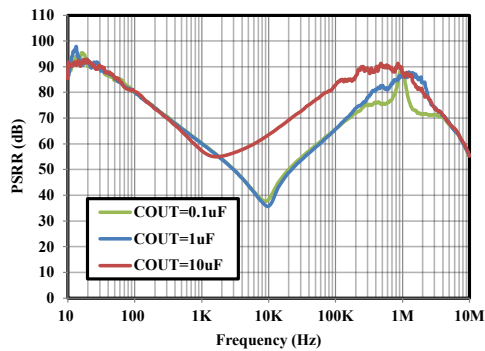


Figure 7. PSRR vs Frequency

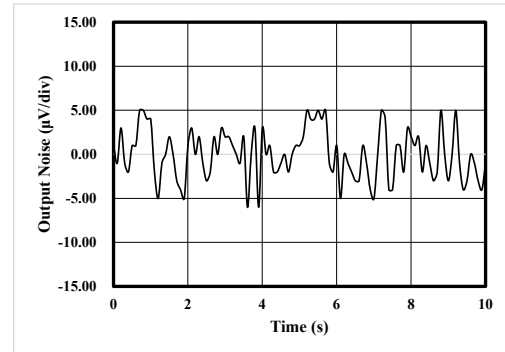


Figure 8. Output Voltage Noise (0.1 Hz to 10 Hz)

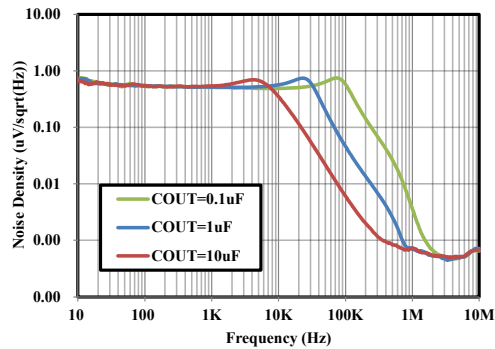


Figure 9. Output Noise Spectral Density

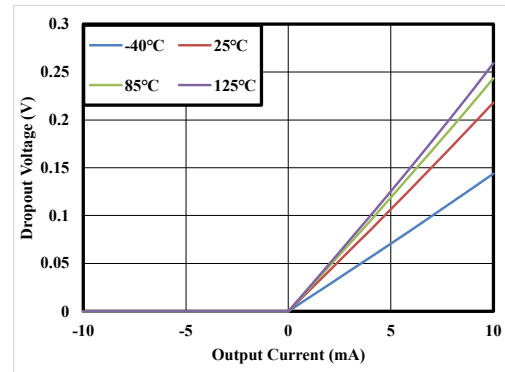


Figure 10. Dropout Voltage vs. Load Current

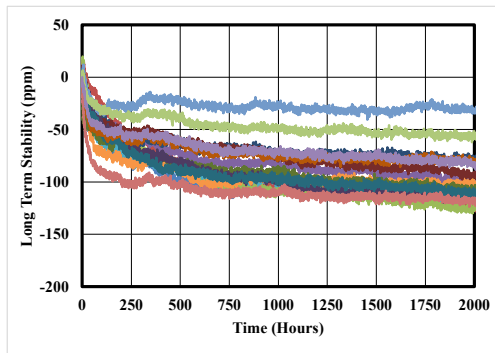


Figure 11. Long Term Stability (2000 hours)

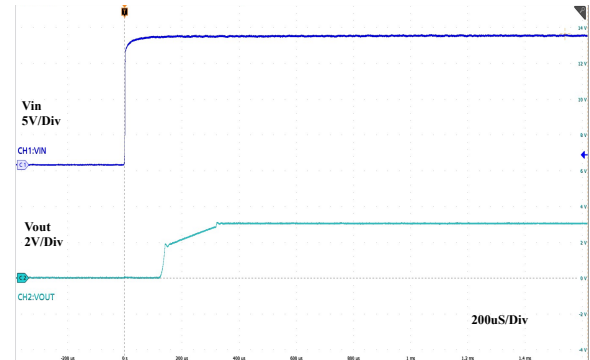


Figure 12. Start Up Time(COUT=1uF)

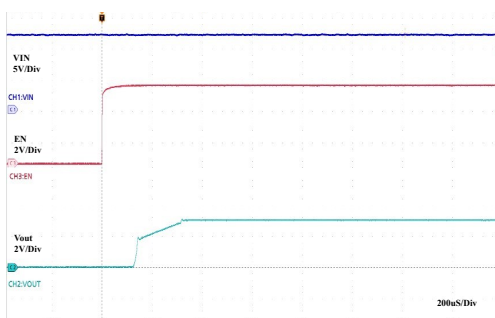


Figure 13. EN Power On

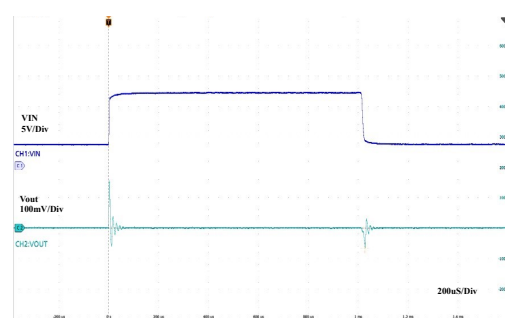


Figure 14. Line Transient

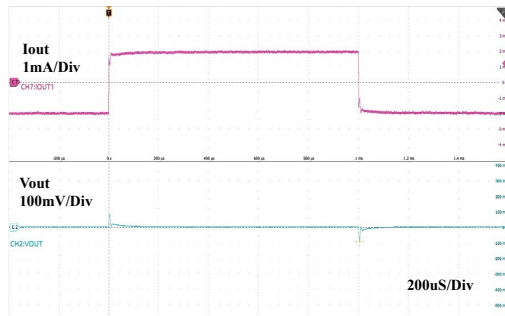
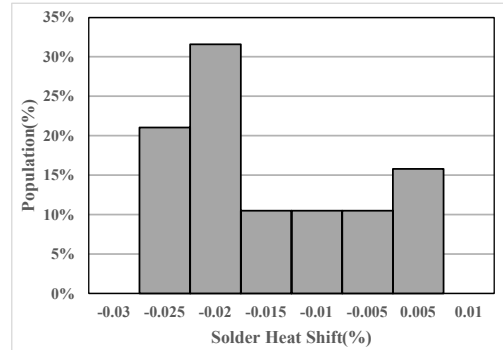


Figure 15. Load Transient


Figure 16. Solder Heat Shift ⁽¹⁾

(1) Higher shifts are also possible depending on the size, thickness, and material of the printed circuit board.

Detailed Description

Overview

The TPR36 is a precision voltage reference intended for high-accuracy analog applications. It combines a temperature-compensated bandgap core, trim network, and a low-output-impedance buffer to achieve high initial accuracy, low temperature drift, and low noise. The output can both source and sink load current while maintaining tight regulation, making the device well suited for precision instruments, data acquisition, battery monitoring, and automotive sensing systems.

Functional Block Diagram

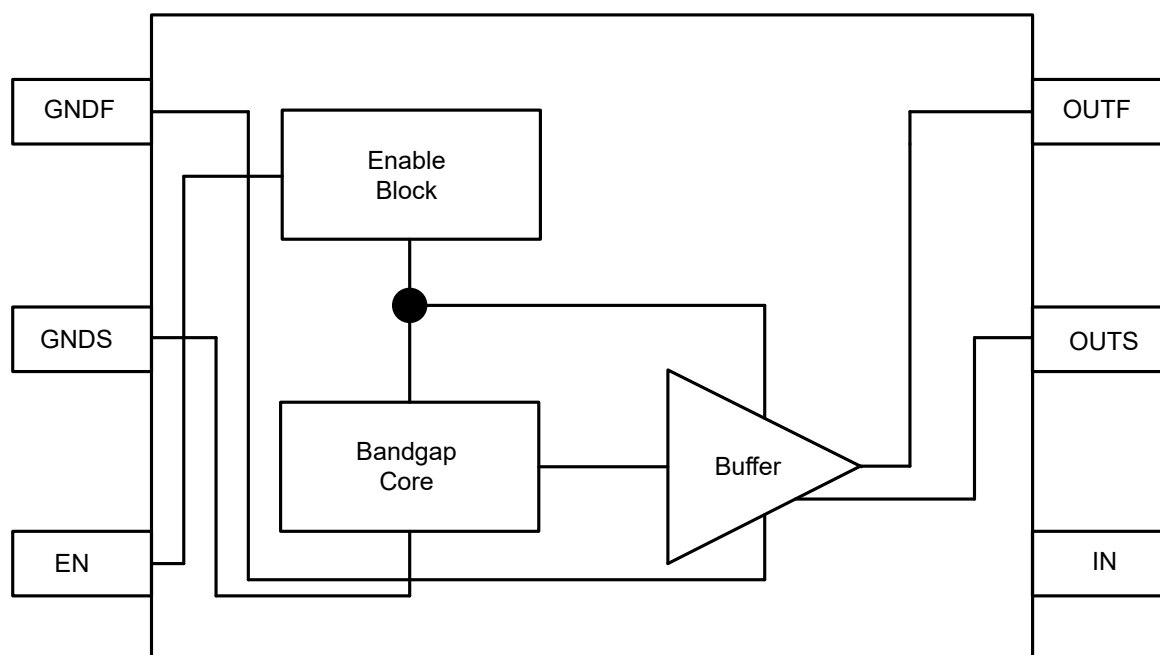


Figure 17. Functional Block Diagram

Feature Description

Wide-Range Supply Voltage (VIN)

The TPR36 uses the VIN pin to power up the internal circuitry with a supply voltage ranging from 3 V to 36 V, and it has an extremely low dropout voltage. Under loaded conditions, the typical relationship between dropout voltage and load current is shown in the [Typical Performance Characteristics](#) section.

Operating Modes (EN, SLEEP):

The TPR36 supports three distinct operating modes based on the status of the EN pins.

Precision Voltage Reference for Automotive**Normal Operation Mode:**

When both EN pins are driven high, the device operates in Normal Mode. Typically, the EN pin can be connected to the IN pin to enable the output.

Low-IQ Sleep Mode:

In Sleep Mode, the EN pin is driven low, achieving a typical low current consumption of 10 μ A max.

4-Wire KELVIN Connections

Current through a PCB trace creates an IR drop, which can become several μ V on longer traces and directly add error to the reference output. For best accuracy, place the reference as close to the load as possible to minimize output trace length. When close placement is not practical, use force and sense (Kelvin) connections to reduce trace-induced voltage drop and improve output accuracy. Kelvin connections work by providing a set of high impedance voltage-sensing lines to the output and ground nodes. Because very little current flows through these connections, the IR drop across their traces is negligible, and the output and ground voltage information can be obtained with minimum IR drop errors.

Application and Implementation

Note

Information in the following application sections is not part of the 3PEAK's component specification and 3PEAK does not warrant its accuracy or completeness. 3PEAK's customers are responsible for determining suitability of components for their purposes. Customers should validate and test their design implementation to confirm system functionality.

Typical Application

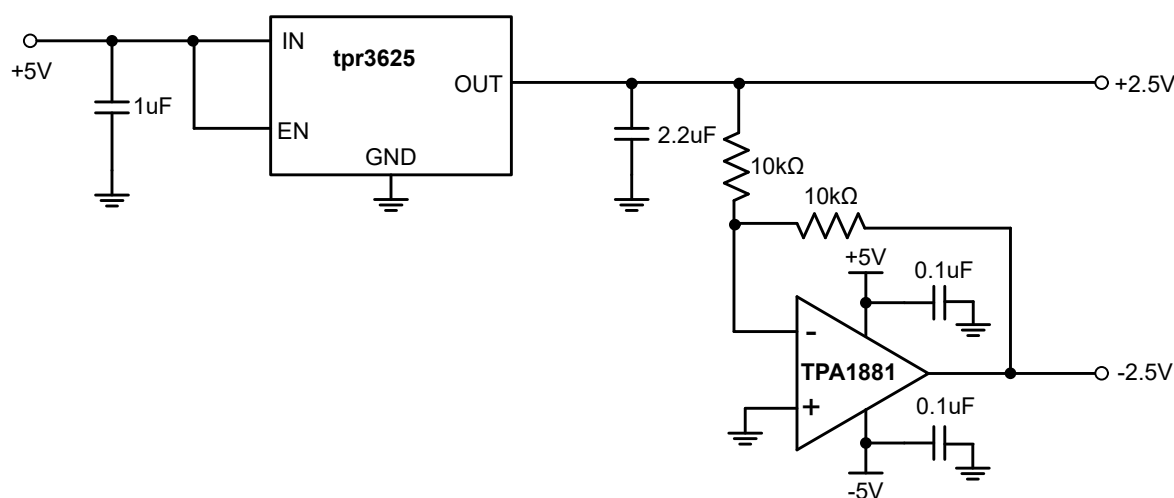
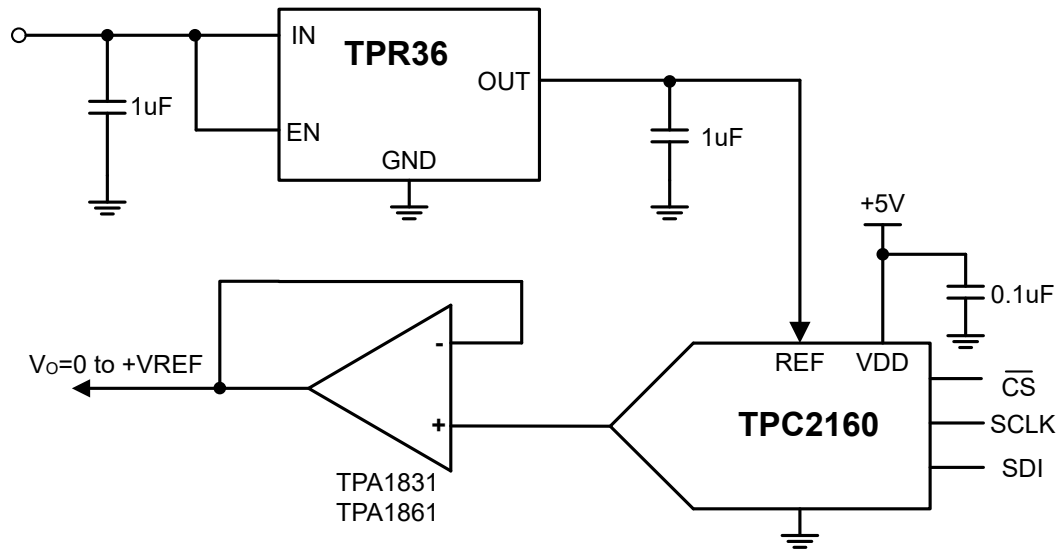


Figure 18. Typical Application Circuit

Negative Reference Voltage

For applications requiring both positive and negative reference voltages, the TPR36, together with the TPA1881, can generate a split-supply reference from a 5-V supply. In this configuration, the TPR36 provides a 2.5-V reference, while its low drift performance, combined with the low offset and zero-drift characteristics of the TPA1881, enables a precise solution for dual-supply systems. For best accuracy, two 10kohm resistors should have closely matched temperature coefficients.

16-Bit, Data Acquisition System

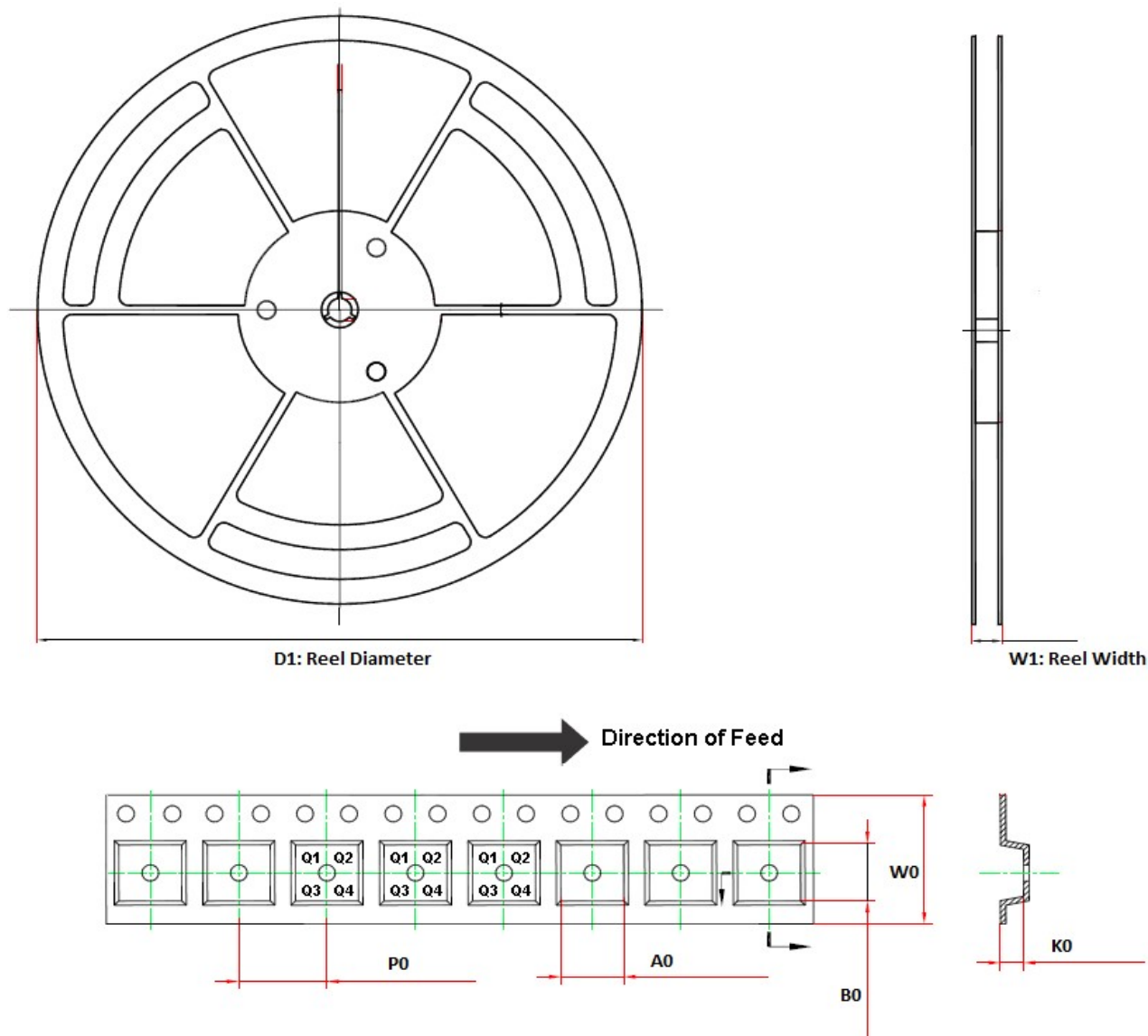


TPR36 is a precision voltage reference intended for systems requiring low temperature drift, low output noise, and high long-term stability. In precision data-conversion and instrumentation applications, the reference source directly determines the achievable gain accuracy, offset stability, and overall system repeatability. For these applications, the reference device should be isolated from dynamic digital load currents and buffered when external loading is required. In this configuration, the TPR36 output is connected to the REF input of the TPC2160. The same reference node is buffered by the operational amplifier, and the buffered output is available as the system output voltage. It provides a high-accuracy reference voltage for the unipolar output mode of the TPC2160.

Input Capacitors Selection: The TPR36 requires one or more input decoupling capacitors to reduce the input voltage noise in actual applications. The input decoupling capacitor should be placed as close as possible to the IN pin to improve transient response. Usually, the optimal configuration of decoupling capacitors is a combination of 1 μF and 0.1 μF . The large 1- μF capacitor can be used to stabilize the input voltage, and the small 0.1- μF capacitor can filter out high-frequency noise. I

Output Capacitors Selection: Best performance and stability are achieved with low-ESR, low-inductance ceramic capacitors such as X5R or X7R. When an electrolytic capacitor is used at the output, place a 0.1- μF ceramic capacitor in parallel to lower the effective output ESR. Additionally, a CL with larger capacitance and lower ESR will help increase high-frequency PSRR and improve load transient response.

Tape and Reel Information



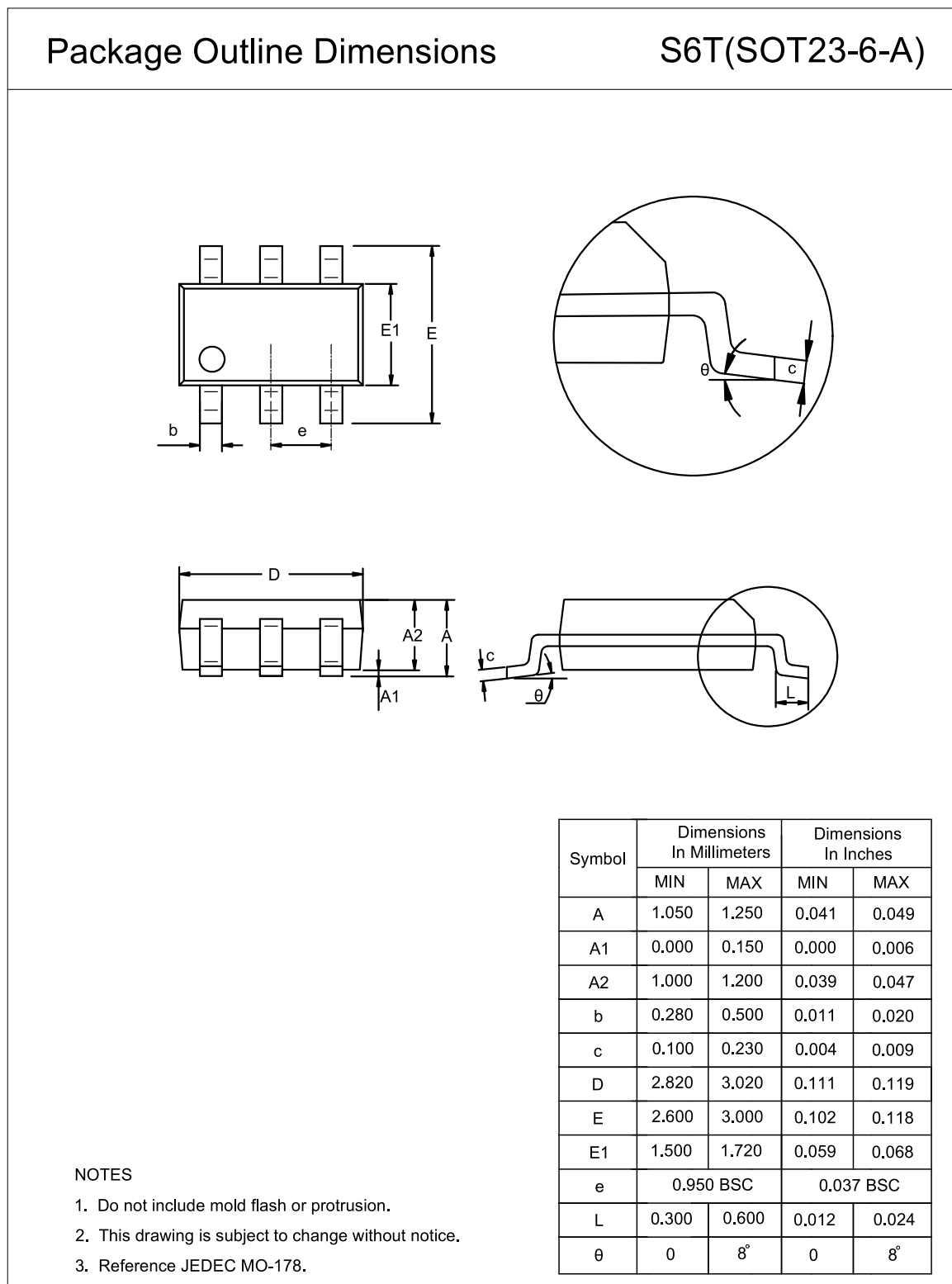
Order Number	Package	D1 (mm)	W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P0 (mm)	W0 (mm)	Pin1 Quadrant
TPR3612-S6TR-S	SOT23-6	180	12	3.3	3.2	1.4	4	8	Q3
TPR3620-S6TR-S	SOT23-6	180	12	3.3	3.2	1.4	4	8	Q3
TPR3625-S6TR-S	SOT23-6	180	12	3.3	3.2	1.4	4	8	Q3
TPR3630-S6TR-S	SOT23-6	180	12	3.3	3.2	1.4	4	8	Q3
TPR3633-S6TR-S	SOT23-6	180	12	3.3	3.2	1.4	4	8	Q3
TPR3640-S6TR-S	SOT23-6	180	12	3.3	3.2	1.4	4	8	Q3
TPR3650-S6TR-S	SOT23-6	180	12	3.3	3.2	1.4	4	8	Q3
TPR3612-VS1R-S	MSOP8	330	17.6	5.3	3.4	1.3	8	12	Q1

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Order Number	Package	D1 (mm)	W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P0 (mm)	W0 (mm)	Pin1 Quadrant
TPR3620-VS1R-S	MSOP8	330	17.6	5.3	3.4	1.3	8	12	Q1
TPR3625-VS1R-S	MSOP8	330	17.6	5.3	3.4	1.3	8	12	Q1
TPR3630-VS1R-S	MSOP8	330	17.6	5.3	3.4	1.3	8	12	Q1
TPR3633-VS1R-S	MSOP8	330	17.6	5.3	3.4	1.3	8	12	Q1
TPR3640-VS1R-S	MSOP8	330	17.6	5.3	3.4	1.3	8	12	Q1
TPR3650-VS1R-S	MSOP8	330	17.6	5.3	3.4	1.3	8	12	Q1
TPR36xx-3STR-S	SOT23G-3	178	13.1	3.15	2.77	1.22	4	8	Q3

Package Outline Dimensions

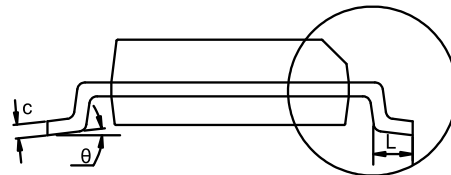
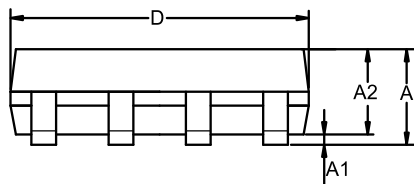
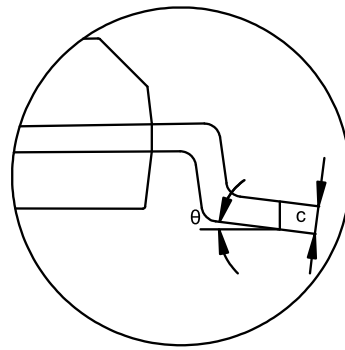
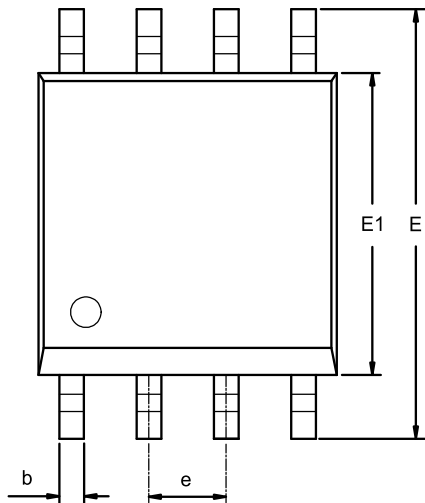
SOT23-6



MSOP8

Package Outline Dimensions

VS1(MSOP-8-A)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	MIN	MAX	MIN	MAX
A	0.800	1.100	0.031	0.043
A1	0.020	0.150	0.001	0.006
A2	0.750	0.950	0.030	0.037
b	0.250	0.380	0.010	0.015
c	0.090	0.230	0.004	0.009
D	2.900	3.100	0.114	0.122
E	4.700	5.100	0.185	0.201
E1	2.900	3.100	0.114	0.122
e	0.650 BSC		0.026 BSC	
L	0.400	0.800	0.016	0.031
θ	0	8°	0	8°

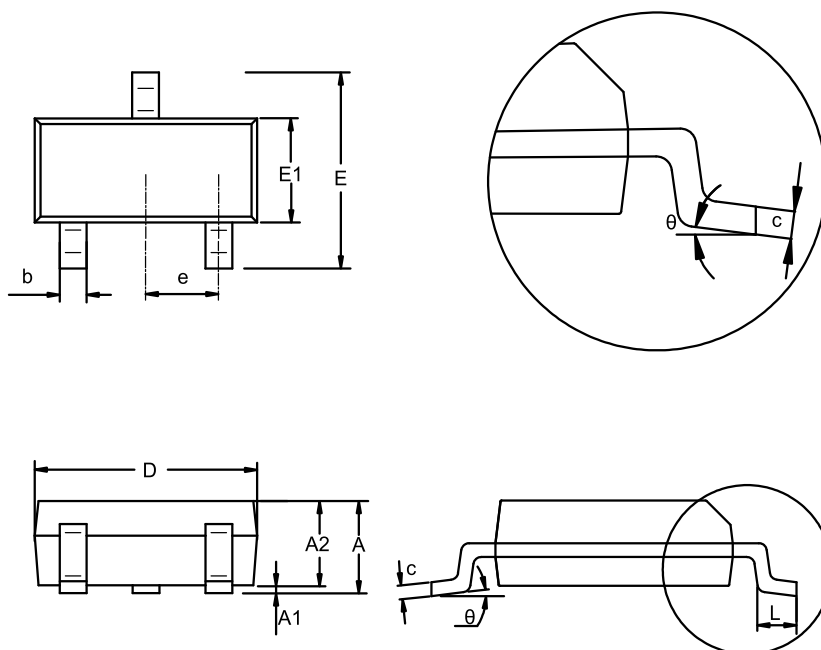
NOTES

1. Do not include mold flash or protrusion.
2. This drawing is subject to change without notice.

SOT23G-3

Package Outline Dimensions

3ST(SOT23G-3-A)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	MIN	MAX	MIN	MAX
A	0.890	1.120	0.035	0.044
A1	0.000	0.100	0.000	0.004
A2	0.890	1.100	0.035	0.043
b	0.300	0.500	0.012	0.020
c	0.132	0.230	0.005	0.009
D	2.800	3.000	0.110	0.118
E	2.250	2.640	0.089	0.104
E1	1.200	1.400	0.047	0.055
e	0.950 BSC		0.037 BSC	
L	0.300	0.600	0.012	0.024
θ	0	8°	0	8°

NOTES

1. Do not include mold flash or protrusion.
2. This drawing is subject to change without notice.

Order Information

Order Number	Operating Temperature Range	Package	Marking Information	MSL	Transport Media, Quantity	Eco Plan
TPR3612-S6TR-S	-40 to 125°C	SOT23-6	R8A	MSL1	3,000	Green
TPR3620-S6TR-S	-40 to 125°C	SOT23-6	R8B	MSL1	3,000	Green
TPR3625-S6TR-S	-40 to 125°C	SOT23-6	R8C	MSL1	3,000	Green
TPR3630-S6TR-S	-40 to 125°C	SOT23-6	R8D	MSL1	3,000	Green
TPR3633-S6TR-S	-40 to 125°C	SOT23-6	R8E	MSL1	3,000	Green
TPR3640-S6TR-S	-40 to 125°C	SOT23-6	R8F	MSL1	3,000	Green
TPR3650-S6TR-S	-40 to 125°C	SOT23-6	R8G	MSL1	3,000	Green
TPR3612-VS1R-S	-40 to 125°C	MSOP8	R3612	MSL1	3,000	Green
TPR3620-VS1R-S ⁽¹⁾	-40 to 125°C	MSOP8	R3620	MSL1	3,000	Green
TPR3625-VS1R-S	-40 to 125°C	MSOP8	R3625	MSL1	3,000	Green
TPR3630-VS1R-S ⁽¹⁾	-40 to 125°C	MSOP8	R3630	MSL1	3,000	Green
TPR3633-VS1R-S ⁽¹⁾	-40 to 125°C	MSOP8	R3633	MSL1	3,000	Green
TPR3640-VS1R-S ⁽¹⁾	-40 to 125°C	MSOP8	R3640	MSL1	3,000	Green
TPR3650-VS1R-S ⁽¹⁾	-40 to 125°C	MSOP8	R3650	MSL1	3,000	Green
TPR3612-3STR-S	-40 to 125°C	SOT23G-3	R8A	MSL1	3,000	Green
TPR3620-3STR-S	-40 to 125°C	SOT23G-3	R8B	MSL1	3,000	Green
TPR3625-3STR-S	-40 to 125°C	SOT23G-3	R8C	MSL1	3,000	Green
TPR3630-3STR-S	-40 to 125°C	SOT23G-3	R8D	MSL1	3,000	Green
TPR3633-3STR-S	-40 to 125°C	SOT23G-3	R8E	MSL1	3,000	Green
TPR3640-3STR-S	-40 to 125°C	SOT23G-3	R8F	MSL1	3,000	Green

Precision Voltage Reference for Automotive

Order Number	Operating Temperature Range	Package	Marking Information	MSL	Transport Media, Quantity	Eco Plan
TPR3650-3STR-S	-40 to 125°C	SOT23G-3	R8G	MSL1	3,000	Green
TPR36E12-S6TR-S ⁽¹⁾	-40 to 125°C	SOT23-6	R8A	MSL1	3,000	Green
TPR36E20-S6TR-S ⁽¹⁾	-40 to 125°C	SOT23-6	R8B	MSL1	3,000	Green
TPR36E25-S6TR-S ⁽¹⁾	-40 to 125°C	SOT23-6	R8C	MSL1	3,000	Green
TPR36E30-S6TR-S ⁽¹⁾	-40 to 125°C	SOT23-6	R8D	MSL1	3,000	Green
TPR36E33-S6TR-S ⁽¹⁾	-40 to 125°C	SOT23-6	R8E	MSL1	3,000	Green
TPR36E40-S6TR-S ⁽¹⁾	-40 to 125°C	SOT23-6	R8F	MSL1	3,000	Green
TPR36E50-S6TR-S ⁽¹⁾	-40 to 125°C	SOT23-6	R8G	MSL1	3,000	Green
TPR36E12-VS1R-S ⁽¹⁾	-40 to 125°C	MSOP8	R3612	MSL1	3,000	Green
TPR36E20-VS1R-S ⁽¹⁾	-40 to 125°C	MSOP8	R3620	MSL1	3,000	Green
TPR36E25-VS1R-S ⁽¹⁾	-40 to 125°C	MSOP8	R3625	MSL1	3,000	Green
TPR36E30-VS1R-S ⁽¹⁾	-40 to 125°C	MSOP8	R3630	MSL1	3,000	Green
TPR36E33-VS1R-S ⁽¹⁾	-40 to 125°C	MSOP8	R3633	MSL1	3,000	Green
TPR36E40-VS1R-S ⁽¹⁾	-40 to 125°C	MSOP8	R3640	MSL1	3,000	Green
TPR36E50-VS1R-S ⁽¹⁾	-40 to 125°C	MSOP8	R3650	MSL1	3,000	Green
TPR36E12-3STR-S ⁽¹⁾	-40 to 125°C	SOT23G-3	R8A	MSL1	3,000	Green
TPR36E20-3STR-S ⁽¹⁾	-40 to 125°C	SOT23G-3	R8B	MSL1	3,000	Green
TPR36E25-3STR-S ⁽¹⁾	-40 to 125°C	SOT23G-3	R8C	MSL1	3,000	Green
TPR36E30-3STR-S ⁽¹⁾	-40 to 125°C	SOT23G-3	R8D	MSL1	3,000	Green
TPR36E33-3STR-S ⁽¹⁾	-40 to 125°C	SOT23G-3	R8E	MSL1	3,000	Green
TPR36E40-3STR-S ⁽¹⁾	-40 to 125°C	SOT23G-3	R8F	MSL1	3,000	Green
TPR36E50-3STR-S ⁽¹⁾	-40 to 125°C	SOT23G-3	R8G	MSL1	3,000	Green

(1) For future products, contact the 3PEAK factory for more information and samples.

Green: 3PEAK defines "Green" to mean RoHS compatible and free of halogen substances.

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