SHR3050 Low-Drift, Low-Power, Small-Footprint Series Voltage Reference

Features

Initial accuracy: ±0.15% Maximum

Temperature coefficient: 35ppm/°C Maximum from -40°C to +125°C

Operating temperature range: -40°C to +125°C

Output current: ±10 mA

Low quiescent current: 125 µA

Ultra-low zero load dropout voltage: 200 mV

Input voltage: 2.7 ~ 5.5 V

Long-term stability: 45 ppm/1000 hrs

Small footprint 3 pin SOT-23 package pinouts:

Applications 2

Factory Automation: PLC/Transmitters/DCS

Test Measurement Equipment

Servo driver and Invertor

Precision Reference for MCU's internal ADC/DAC

3 Description

The SHR3050 device is a low temperature drift (10 ppm/°C), low-power, precision CMOS voltage reference, featuring ±0.15% maximum initial accuracy, low operating current with power consumption less than 125 µA. This device also offers low output noise of 25 µVp-p/V. The SHR3050 is compatible to most of the ADC and DAC, It offers a small SOT-23 package. Stability and system reliability are further improved by the low output-voltage hysteresis of the device and low long-term output voltage drift. Furthermore, the small size and low operating current of the devices (125 µA) benefit portable and batterypowered applications.

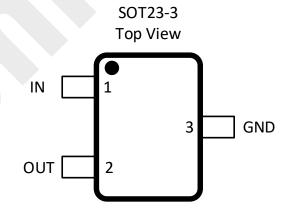
SHR3050 is specified for the wide temperature range of -40°C to +125°C.

_						_		
n		ice	In	tΛ	rm) at	ınn	١
$\boldsymbol{-}$	₩			ıv		ıaı	ıvı	

PART NAME	PACKAGE (PIN) ⁽¹⁾	BODY SIZE (NOM)
SHR3050	SOT-23 (3)	2.90 mm × 1.30 mm

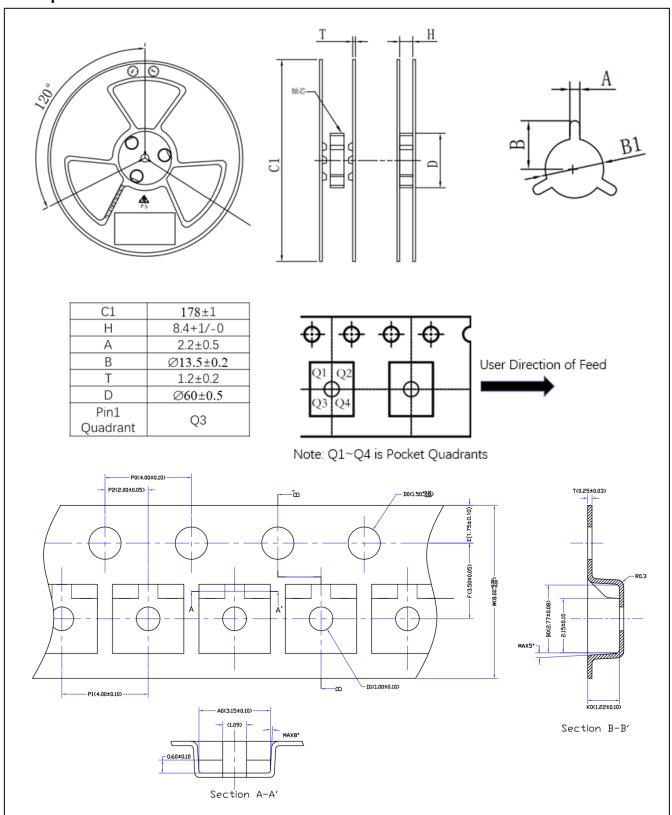
(1) For all available packages, see the orderable addendum at the end of the data sheet

PIN Configuration



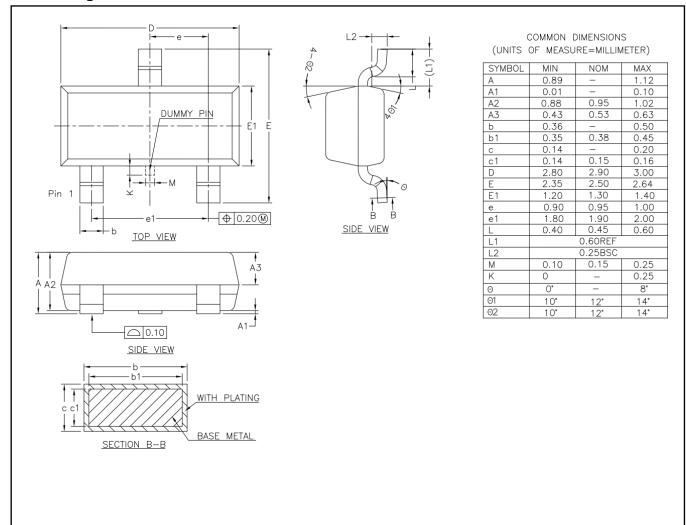


10 Tape and Reel Information





11 Package Information





12 Ordering Guide

Orderable Device	Package	Package Qty	MSL-Peak Temp	Lead Fish Plating	Op Temp (°C)	RoHS (Pb Free)
SHR3050TST3IR	SOT23-3	3000	Level 1-260°C	100%Sn	-40 to 125°C	Yes
SHR3050TST3IT	SOT23-3	250	Level 1-260°C	100%Sn	-40 to 125°C	Yes

