

Product Overview

LM285: MicroPower Voltage Reference Diodes

For complete documentation, see the data sheet.

The LM285/LM385 series are micropower two-terminal bandgap voltage regulator diodes. Designed to operate over a wide current range of 10 μ A to 20 mA, these devices feature exceptionally low dynamic impedance, low noise and stable operation over time and temperature. Tight voltage tolerances are achieved by on-chip trimming. The large dynamic operating range enables these devices to be used in applications with widely varying supplies with excellent regulation. Extremely low operating current make these devices ideal for micropower circuitry like portable instrumentation, regulators and other analog circuitry where extended battery life is required. The LM285/LM385 series are packaged in a low cost TO-226AA plastic case and are available in two voltage versions of 1.235 and 2.500 V as denoted by the device suffix (see Ordering Information table). The LM285 is specified over a -40 C to +85 C temperature range while the LM385 is rated from 0 C to +70 C. The LM385 is also available in a surface mount plastic package in voltages of 1.235 and 2.500 V.

Features

- Operating Current from 10 μ A to 20 mA
- 1.0%, 1.5%, 2.0% and 3.0% Initial Tolerance Grades
- Low Temperature Coefficient
- 1.0 W Dynamic Impedance
- Surface Mount Package Available
- Pb-Free Packages are Available

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	$V_{(BR)}$ Typ (V)	Tolerance (%)	I_O Typ (mA)	I_R Min (mA)	V_F Max (V)	T_A Min ($^{\circ}$ C)	T_A Max ($^{\circ}$ C)	Package Type
LM285D-1.2G		Pb-free Halide free	Active	Fixed	1.25	1		0.01		-40	85	SOIC-8
LM285D-1.2R2G	0.2481	Pb-free Halide free	Active	Fixed	1.25	1		0.01		-40	85	SOIC-8
LM285D-2.5G		Pb-free Halide free	Active	Fixed	2.5	1.5		0.01		-40	85	SOIC-8
LM285D-2.5R2G	0.2412	Pb-free Halide free	Active	Fixed	2.5	1.5		0.01		-40	85	SOIC-8
LM285Z-1.2G	0.24	Pb-free Halide free	Active	Fixed	1.25	1		0.01		-40	85	TO-92
LM285Z-1.2RAG		Pb-free Halide free	Active	Fixed	1.25	1		0.01		-40	85	TO-92
LM285Z-2.5G	0.2195	Pb-free Halide free	Active	Fixed	2.5	1.5		0.01		-40	85	TO-92
LM285Z-2.5RAG		Pb-free Halide free	Active	Fixed	2.5	1.5		0.01		-40	85	TO-92
LM285Z-2.5RPG		Pb-free Halide free	Active	Fixed	2.5	1.5		0.01		-40	85	TO-92

For more information please contact your local sales support at www.onsemi.com.

Created on: 6/4/2020