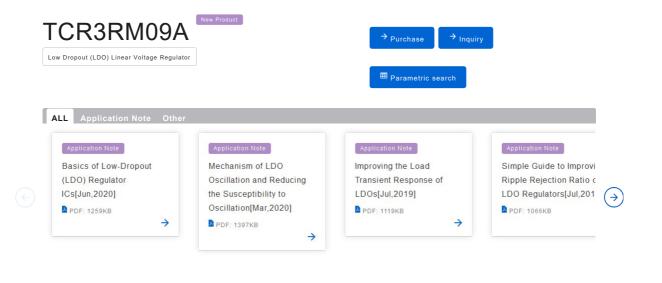
Description Package Information Absolute Maximum Ratings Electrical Characteristics Document Inquiry Related Links Notes

COMPANY

Semiconductor Top

Products / Design & Development / Knowledge

Semiconductor & Storage Products Home > Semiconductor > Power Management ICs > Low-Dropout Regulators (LDO Regulators) > Product detail



Description

Application	Mobile equipment / IOT/Wearable equipment / Camera/Sensor power supply / RF power supply / Audio power supply
Feature	High ripple rejection ratio / Low quiescent current / Fast load transient response / Low output noise voltage / Small package
Output Type	Fixed Output
Overcurrent protection	Υ
Thermal shutdown	Υ
Auto-discharge	Υ
Inrush current reduction	Υ
RoHS Compatible Product(s) (#)	Available
Assembly bases	Japan

Package Information

Toshiba Package Name	DFN4C
Pins	4

Please refer to the link destination to check the detailed size

Absolute Maximum Ratings

Characteristics	Symbol	Rating	Unit
Input Voltage	V _{IN}	6.0	V

Electrical Characteristics

Characteristics	Symbol	Condition	Value	Unit
Operating Output Current (Max)	l _{OUT}	-	300	mA
Operating Input Voltage *	V _{IN}	-	1.8 to 5.5	V
Output Voltage (Typ.)	V _{OUT}	-	0.9	V
Output Voltage Lineup	V _{OUT}	-	0.9 to 4.5	V
Output Voltage Accuracy (±) *	-	-	2.0	%
Quiescent Current (Typ.) *	I _{B(ON)}	I _{OUT} =0mA	7	μΑ
Stand-by Current (Typ.) *	I _{B(OFF)}	-	0.1	μΑ
Dropout Voltage (Typ.) *	V_{DO}	l _{OUT} =0.3A	130	mV
Ripple Rejection Ratio (Typ.)*	R.R.	f=1kHz	100	dB
Output Noise Voltage (Typ.)*	V _{NO}	-	5	μVrms
Operating Temperature	T _{opr}	-	-40 to 85	°C
Output Capacitance	C _{OUT}	-	≥1.0	μF

^{*:} Representative value, Please refer to the datasheet for details.

Document

select all If the checkbox is invisible, the corresponding document cannot be downloaded in batch.

Name	Date
Application Note Basics of Low-Dropout (LDO) Regulator ICs PDF: 1259KB	Jun,2020
Application Note Mechanism of LDO Oscillation and Reducing the Susceptibility to Oscillation PDF: 1397KB	Mar,2020
Application Note Improving the Load Transient Response of LDOs PDF: 1119KB	Jul,2019
Application Note Simple Guide to Improving Ripple Rejection Ratio of LDO Regulators PDF: 1066KB	Jul,2019
Application Note Power Efficiency Optimization and Application Circuits Using Dual-power-supply LDO Regulators PDF: 915KB	Mar,2019
Application Note Thermal Design to Maximize the Performance of LDO Regulators PDF: 914KB	Mar,2019
Application Note LDO Regulators Glossary PDF: 449KB	Jan,2019
Catalog Power Management PDF: 1179KB	May,2015

Technical inquiry



Related Links

→ Part Naming Conventions

Notes

The Part Number column shows representative part numbers only, which may not be available for sale in the precise form shown. Each Part Number constitutes a product family which may contain multiple associated product configurations

(#) Under the RoHS Compatible Product(s) column, "Available" means at least one RoHS-Compatible product is available for sale in the corresponding product family. "None" means no RoHS Compatible product is available in that product family. For Toshiba's definitions of concepts related to the RoHS Directive and RoHS Compatibility, please click here .

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Reliability data are provided for your reference only, please contact your Toshiba sales representative for detailed reliability information about each part number

For product delivery, additional characters will be added to the part numbers shown on this website. For details, please ask your local distributor, or send an inquiry accessed from "Contact Us"



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- → MOSFETs
- → Optical Semiconductor Devices
- → Power Management ICs
- → Intelligent Power ICs
- → Linear ICs
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- → Diodes
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- → Automotive Devices
- → ICs for Wireless Communication Equipment
- → General Purpose Logic ICs
- → Interface Bridge ICs for Mobile Peripheral Devices
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- → Sensors
- → Linear Image Sensors

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- → Data Center / Enterprise
- > Internal / Specialty
- → Consumer Storage
- \rightarrow Company

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