

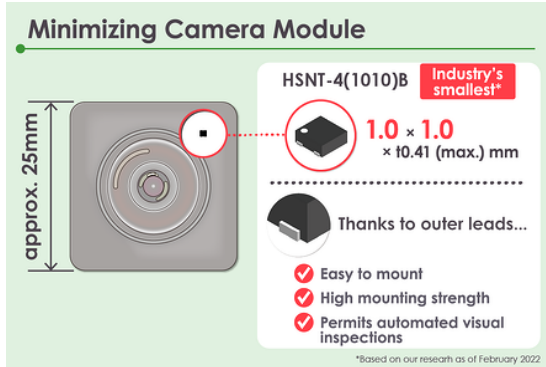
Automotive, 125°C operation,
5.5V input, 300mA linear regulator

S-19255 Series

S-19255 Series 



The industry's smallest* package and high PSRR minimize automotive camera modules!

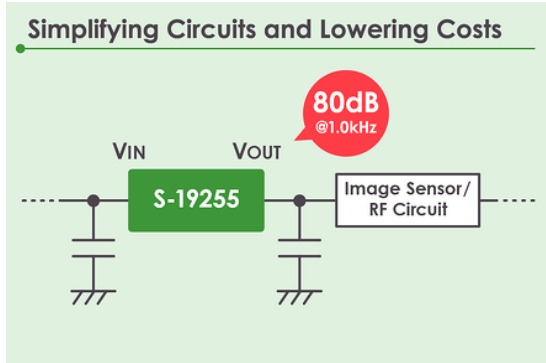


● The industry's smallest* package minimizes camera modules.

S-19255 Series comes in a 1.0mm square **HSNT-4(1010)B**, the industry's smallest* package. The use of HSNT-4(1010)B package with outer leads facilitates mounting, ensures high mounting strength and permits automated visual inspections after mounting.

S-19255 Series accommodates the demand for smaller camera modules to enable installation of the ever-growing number of camera modules that systems such as Advanced Driver Assistance (ADAS) and Autonomous Driving (AD) require.

*Based on our research as of February 2022

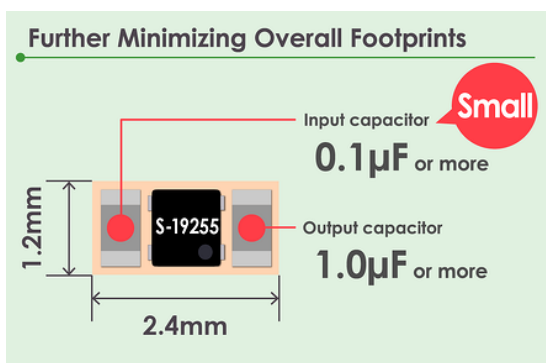


● High PSRR over a wide frequency range simplifies circuits and lowers costs

S-19255 Series provides high PSRR over a wide frequency range with a rejection rate of **80dB typ. (f = 1.0kHz)** and 50dB (f = 100kHz). This means that it requires no circuits to reduce noise, which simplifies circuits and lowers costs.

S-19255 Series delivers clean power supply with little noise, which is ideal for automotive cameras and transmission RF circuits.

PSRR: Power Supply Ripple Rejection



● Use of Small I/O Capacitors further minimizes overall footprints

S-19255 Series permits use of **0.1µF input capacitors** and **1.0µF output capacitors**.

Small and readily available capacitors can be used instead of large capacitors to **easily minimize the overall footprints**.

ABLIC Inc.

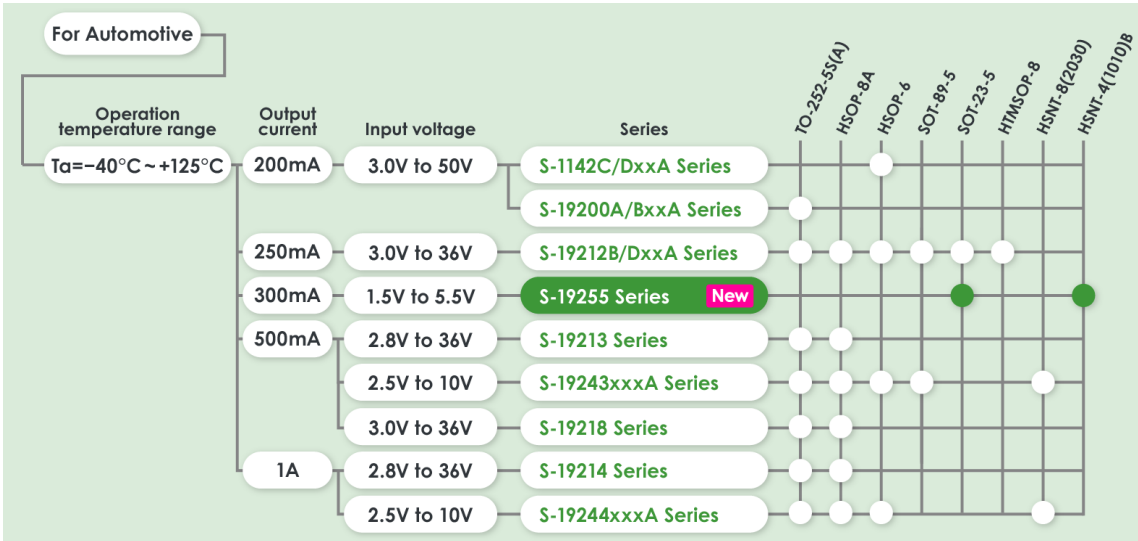
The latest Information
<https://hub.ablic.com/en/products/s-19255?LF>



Applications

	Applicable package	
	HSNT-4(1010)B	SOT-23-5
Surround view camera	✓	✓
Front sensing camera, DMS, FCW	—	✓
Accessory, car navigation system, car audio system, etc.	✓	✓
Engine, transmission, suspension, ABS, related-devices for EV / HEV / PHEV, etc.	—	✓
Constant-voltage power supply for electrical application for vehicle interior	✓	✓

Automotive Linear Regulators (125°C Operation) Product Lineup



Features

Product name	S-19255 Series Automotive
Output current	300mA
Output voltage	0.9V to 3.6V
Input voltage	1.5V to 5.5V
Output voltage accuracy	±2.0% (Tj = -40°C to +125°C)
Ripple rejection	50dB typ. (VOUT(S) = 3.3V, f = 100kHz) 80dB typ. (VOUT(S) = 3.3V, f = 1.0kHz)
Package	SOT-23-5, HSNT-4(1010)B
Automotive quality	AEC-Q100 qualified, PPAP capable
Operation temperature range	Ta = -40°C to +125°C

As of 2/1, 2023. All the information described herein is subject to change without notice.