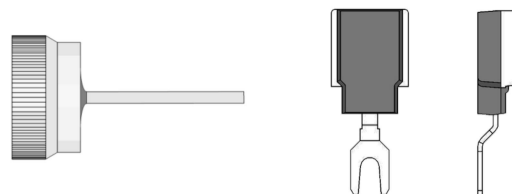




Alternator Diodes

◆ Press-fit

◆ SG-10



Features of Alternator Diode

This document introduces our rectifier diodes designed for automotive alternator circuits. We offer two types of packages: press-fit and SG-10. Both types can withstand the harsh environments of the automotive engine compartment.

✓ Easy to mount

The press-fit type can be mounted simply by inserting it into the heatsink. This reduces the soldering process and workloads.

✓ Space-saving

We offer suffix "S" type and suffix "R" type of reverse polarity type. Combining these products allows you to efficiently place diodes in a limited space while maintaining enhanced heat dissipation.

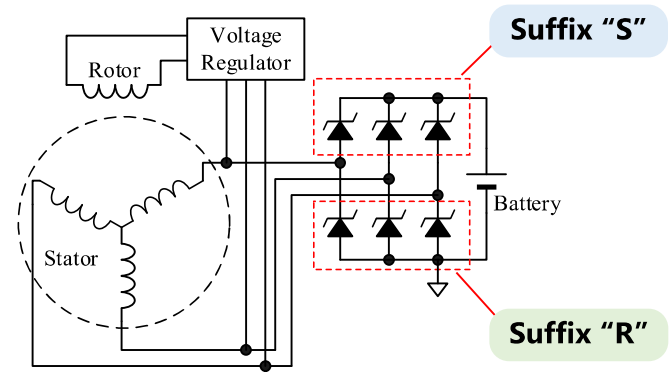
✓ High Surge Capability

Load dump surge standard JASO A-1/JASO D-1 compliant

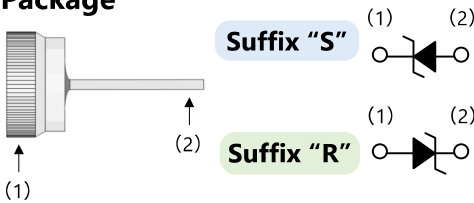
✓ High Reliability

Our alternator diodes have a high junction temperature rating and can withstand the harsh environments of the automotive engine compartment.

Typical Application



Package



Pin Number	Suffix "S"	Suffix "R"
(1)	Cathode	Anode
(2)	Anode	Cathode

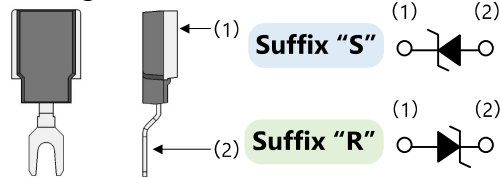
Features

- **Lineup of 12 V and 24 V System**
- **No Soldering Required**
Can be mounted simply by inserting it into the heatsink, lowering the soldering process and workloads.
- **High Surge Capability**
Load dump surge standard JASO A-1/JASO D-1 compliant
- **High Reliability**
High junction temperature rating allows this package to withstand the harsh environments of the automotive engine compartment.

Selection Guide

Part Number	V_{RM}	$I_{F(AV)}$	T_J (Max.)	V_Z	V_F (Max.)	I_R (Max.)	Standards Compliance
SG-17VLZ40	32 V	50 A	235 °C	36 V to 44 V	1.25 V	1 μ A	JASO D-1
SG-17VLZ	17 V	50 A	235 °C	20 V to 26 V	1.20 V	1 μ A	JASO A-1
SG-K17VLEFG	17 V	50 A	200 °C	20 V to 26 V	0.67 V	20 μ A	JASO A-1
SG-17NNJ23	17 V	45 A	210 °C	20 V to 26 V	0.92 V	1 μ A	JASO A-1

Package



Pin Number	Suffix "S"	Suffix "R"
(1)	Cathode	Anode
(2)	Anode	Cathode

Features

- **Lineup of 12 V and 24 V System**
- **High Surge Capability**
Load dump surge standard JASO A-1/JASO D-1 compliant
- **High Reliability**
High junction temperature rating allows this package to withstand the harsh environments of the automotive engine compartment.

Selection Guide

Part Number	V_{RM}	$I_{F(AV)}$	T_J (Max.)	V_Z	V_F (Max.)	I_R (Max.)	Standards Compliance
SG-10LZ40	32 V	30 A	160 °C	36 V to 44 V	1.20 V	50 μ A	JASO D-1
SG-10LXZ23	17 V	35 A	160 °C	20 V to 28 V	1.05 V	50 μ A	JASO A-1
SG-10LZ23	17 V	30 A	160 °C	20 V to 28 V	1.20 V	50 μ A	JASO A-1
SG-10L	200 V	30 A	160 °C	—	1.20 V	250 μ A	Non-compliant

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