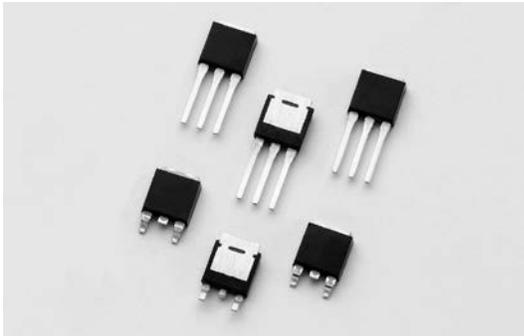


Littelfuse Inc.  
8755 West Higgins Road, Suite 500  
Chicago, Illinois 60631  
p: (773) 628-1000 f: (773) 628-0802  
[www.littelfuse.com](http://www.littelfuse.com)



[SJ Series SCR Thyristors in D-PAK and V-PAK](#)

## FOR IMMEDIATE RELEASE

### Media Contact:

Rhonda Stratton  
Global Marketing Communications Manager  
Electronics Products, Littelfuse, Inc.  
773-628-0644  
[rstratton@littelfuse.com](mailto:rstratton@littelfuse.com)  
[twitter.com/littelfuse](https://twitter.com/littelfuse)

## Littelfuse Introduces Industry's First SCR Thyristor with 150°C Junction Temperature in D-PAK Packaging

*Ideal for switch applications like phase control in heating, motor speed controls, converters/rectifiers and CDI*

**CHICAGO, October 16, 2017** — [Littelfuse, Inc.](http://www.littelfuse.com), the global leader in circuit protection, today introduced a series of high-temperature SCR (silicon-controlled rectifier) thyristors, the first circuit protection devices of their kind to offer a junction temperature of 150°C in compact surface-mount D-PAK (TO-252) packaging. These devices are also available in through-hole V-PAK (TO-251) packages. Standard SJ Series SCR Thyristors have a low gate current trigger level of 6mA or 15mA maximum at approximately 1.5V. Sensitive models in the series feature a gate trigger current of less than 200µA. These sensitive gate devices can be easily triggered by sense coils, proximity switches, and microprocessors.

Applications for SJ Series SCR Thyristors include capacitive discharge ignition (CDI) systems for motorcycle engines, portable generator engine ignition, strobe lights and nailers, as well as generic rectifiers, battery voltage regulators, converters and inrush current limiting circuits in AC-DC converters. They are also ideal for use in controls for power tools, home/brown goods (such as consumer electronics like televisions, radios, digital media players, and computers) and white goods/appliances.

“Despite the SJ Series’ compact D-PAK and V-PAK footprints, its high junction temperature of 150°C allows for performance comparable to that of SCR thyristors in larger TO-220AB and TO-263 packages because it has a wider operating margin,” said Koichiro Yoshimoto, business development manager, Semiconductor Business Unit, at Littelfuse. “The combination of a higher junction temperature and

excellent surge handling capability will allow designers to replace existing SCR thyristors in larger TO-220AB and TO-263 packages, and allow others to design smaller products.”

SJ Series SCR Thyristors offer these key benefits:

- High junction temperature of 150°C provides a wider operating margin in existing designs and allows the use of smaller heat sinks in new designs.
- Compact D-PAK and V-PAK packages enable smaller board designs by making it possible to replace larger TO-220AB and TO-263 packages.
- Robust clip-attach package design enables high surge capability, so they can tolerate harsher operating conditions.
- High di/dt capability enables higher voltage output in capacitor discharge ignition applications.

### **Availability**

SJ Series (SJxx04x, SJxx06x, SJxx08x, SJxx10x and SJxx12xx) SCR Thyristors are available in a choice of D-PAK and V-PAK packages in tubes in minimum order quantities of 750 (75 per tube) or in embossed carriers with a minimum order quantity of 2,500. Sample requests may be placed through authorized Littelfuse distributors worldwide. For a listing of Littelfuse distributors, please visit [Littelfuse.com](http://Littelfuse.com).

### **For More Information**

Additional information is available on the [SJ Series SCR Switching Thyristor product page](#). For technical questions, please contact: Koichiro Yoshimoto, [kyoshimoto@littelfuse.com](mailto:kyoshimoto@littelfuse.com).

### **About Littelfuse**

Founded in 1927, Littelfuse is the world leader in circuit protection with growing global platforms in power control and sensing. The company serves customers in the electronics, automotive and industrial markets with technologies including fuses, semiconductors, polymers, ceramics, relays and sensors. Littelfuse has over 10,000 employees in more than 40 locations throughout the Americas, Europe and Asia. For more information, please visit [Littelfuse.com](http://Littelfuse.com).

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