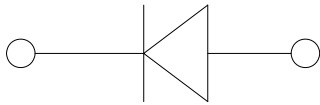
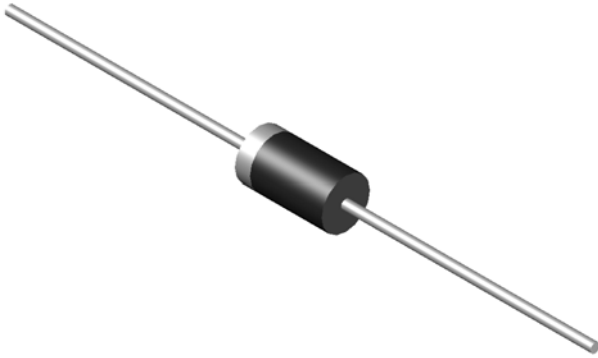


## Schottky Barrier Rectifier



### Features

- Guardring for overvoltage protection
- Low forward voltage drop, Low power losses
- High forward surge capability
- High frequency operation
- Solder dip 275 °C max. 7 s, per JESD 22-B106

### Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

### Mechanical Data

- **Package:** DO-201AD(DO-27)  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Color band denotes the cathode end

### ■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SR5150L	SR5200L
Device marking code			SR5150L	SR5200L
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	150	200
Average Rectified Output Current @60Hz sine wave, Resistance load, Ta (FIG.1)	I <sub>O</sub>	A	5.0	
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave, 1 cycle, Ta=25°C	I <sub>FSM</sub>	A	150	
Storage Temperature	T <sub>stg</sub>	°C	-55 ~+150	
Junction Temperature	T <sub>j</sub>	°C	-55 ~+150	

### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SR5150L	SR5200L
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	I <sub>FM</sub> =5.0A	0.80	
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>R</sub>	mA	Ta=25°C	0.01	
			Ta=125°C	5	



# SR5150L THRU SR5200L

## ■ Thermal Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	SR5150L	SR5200L
Thermal Resistance	Junction to ambient	R <sub>θJ-A</sub>	°C/W	25	
	Junction to Lead	R <sub>θJ-L</sub>	°C/W	8	

## ■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SR5150L~SR5200L	D1	Approximate 1.05	1250	1250	12500	Tape
SR5150L~SR5200L	C1	Approximate 1.05	250	250	12500	Bulk

## ■ Characteristics(Typical)

FIG.1: I<sub>o</sub>-T<sub>L</sub> Curve

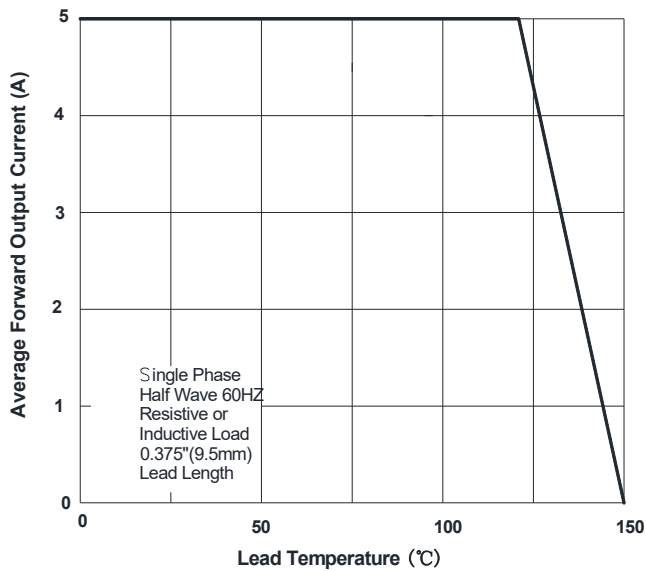


FIG2: Surge Forward Current Capability

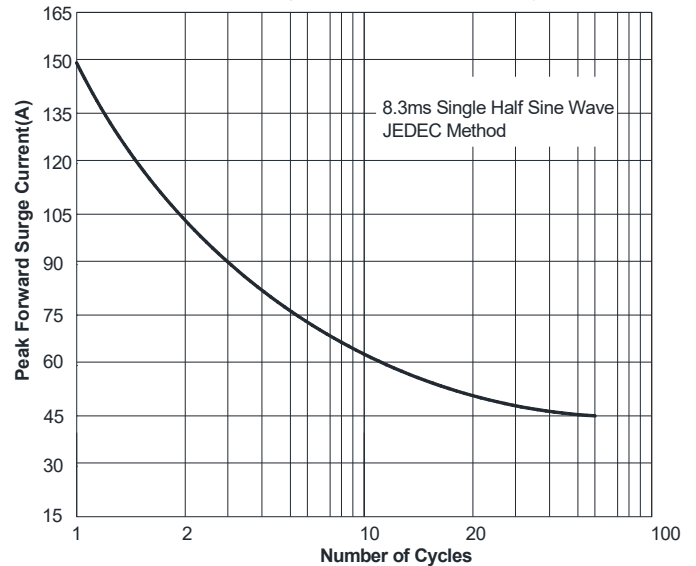


FIG3: Forward Voltage

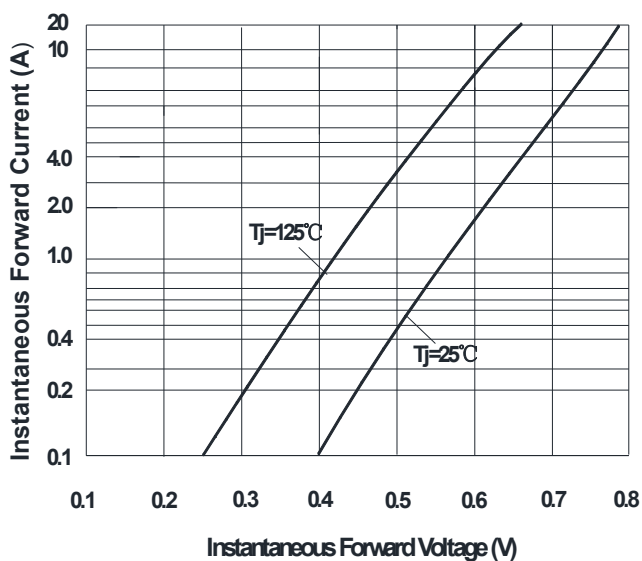
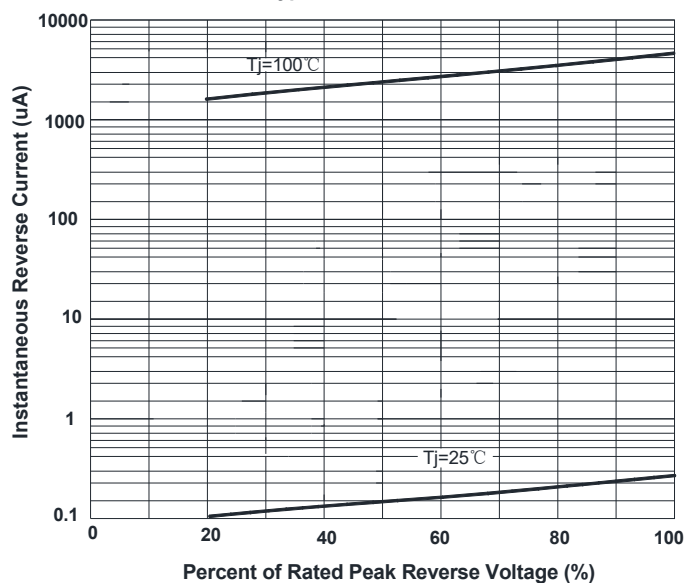
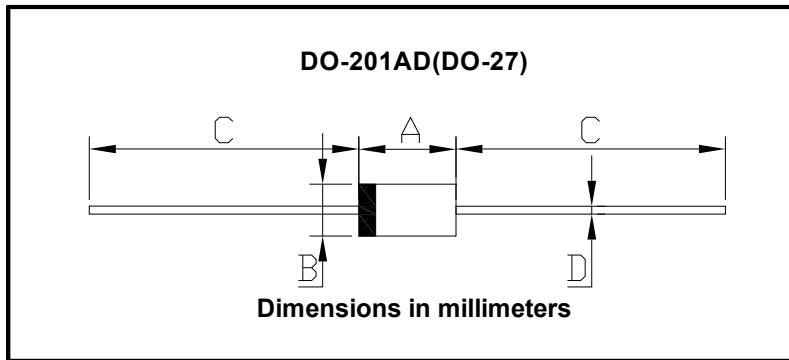


FIG.4: Typical Reverse Characteristics





## ■ Outline Dimensions



<b>DO-201AD(DO-27)</b>		
Dim	Min	Max
A	8.50	9.50
B	5.00	5.60
C	25.4	/
D	1.2	1.3



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