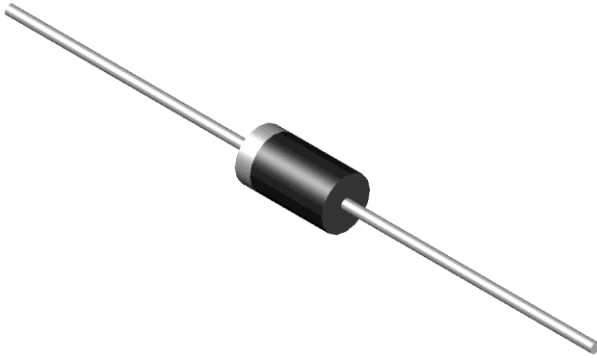


Schottky Barrier Rectifier

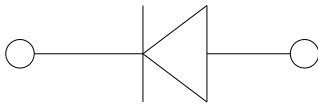


Features

- 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	SR540L	SR560L	SR5100L
Device marking code			SR540L	SR560L	SR5100L
Repetitive Peak Reverse Voltage	VRRM	V	40	60	100
Average Rectified Output Current @60Hz sine wave, Resistance load, Ta (FIG.1)	IO	A	5.0		
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Ta=25°C	IFSM	A	80		
Storage Temperature	Tstg	°C	-55 ~+150		
Junction Temperature	Tj	°C	-55 ~+125	-55 ~+150	

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SR540L	SR560L	SR5100L
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=5.0A	0.48	0.49	0.7
Maximum DC reverse current at rated DC blocking voltage per diode	IR	mA	Ta=25°C	0.2		0.1
			Ta=100°C	50		
Typical junction capacitance@4V 1MHZ	Cj	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C	330	250	190

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



SR540L THRU SR5100L

■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	SR540L	SR560L	SR5100L
Thermal Resistance	Junction to ambient	R _{θJ-A}	°C/W	20		

■ Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SR540L~SR5100L	D1	Approximate 1.05	1250	1250	12500	Tape
SR540L~SR5100L	C1	Approximate 1.05	250	250	12500	Bulk

■ Characteristics(Typical)

FIG.1: I_o-T_a Curve

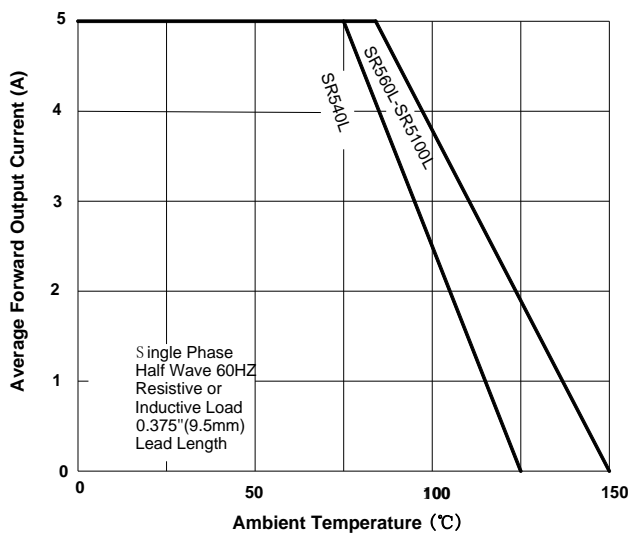


FIG.2: Forward Surge Current Capability

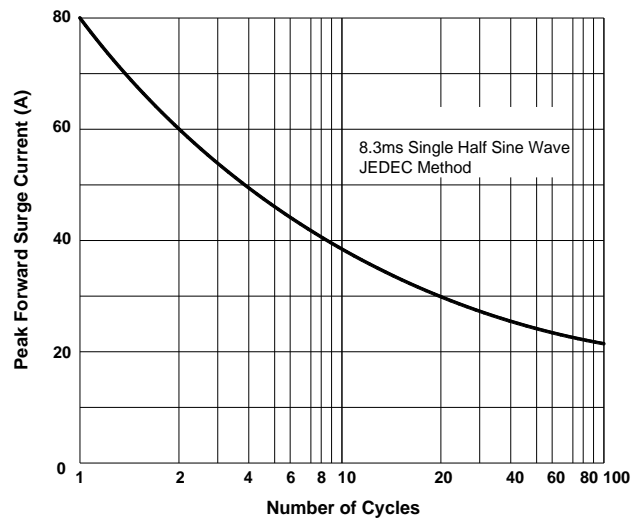


FIG.3: Forward Voltage

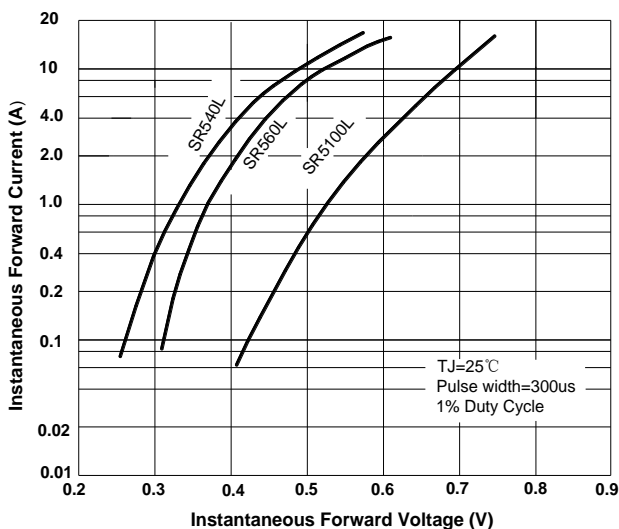
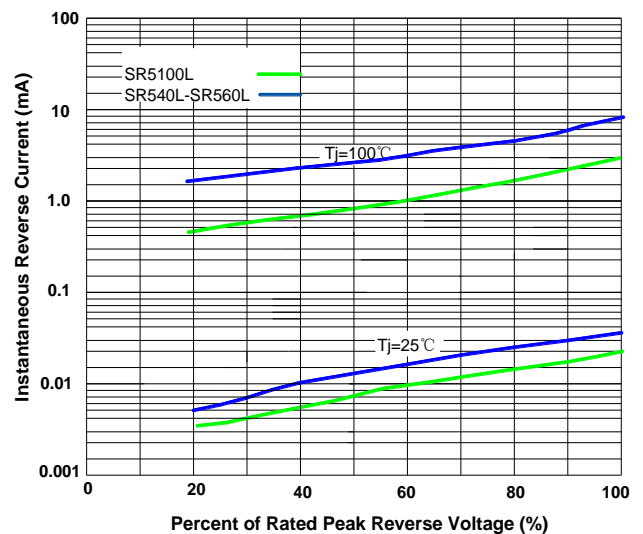


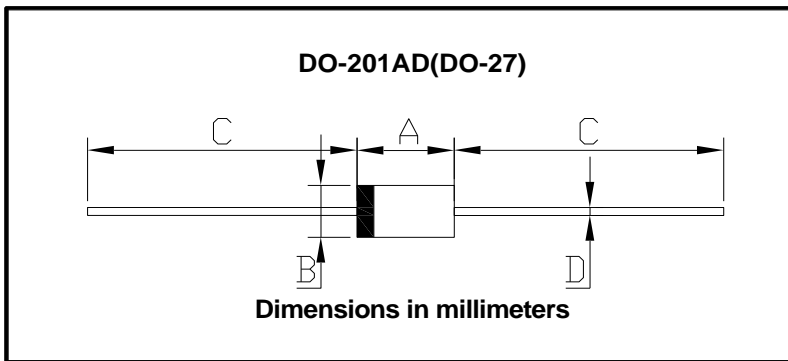
FIG.4: Typical Reverse Characteristics





SR540L THRU SR5100L

■ Outline Dimensions



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



SR540L THRU SR5100L

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