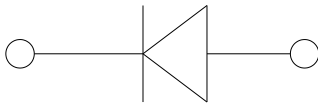
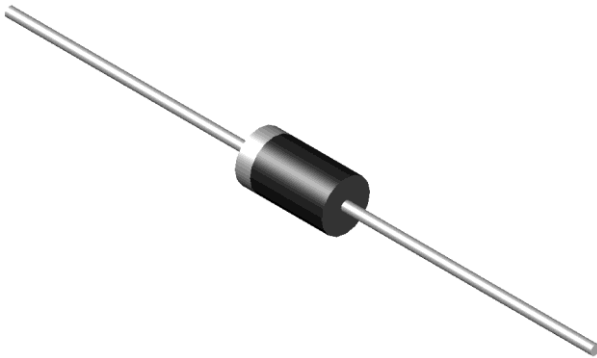


Schottky Barrier Rectifier



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	SR15120L
Device marking code			SR15120L
Repetitive Peak Reverse Voltage	VRRM	V	120
Average Rectified Output Current @60Hz sine wave, Resistance load, Ta (FIG.1)	IO	A	15.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Ta=25°C	IFSM	A	280
Typical Junction capacitance @4V, 1MHz	Cj	pF	1140
Storage Temperature	Tstg	°C	-55 ~+150
Junction Temperature	Tj	°C	-55 ~+150

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SR15120L
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=15.0A	0.80
Maximum DC reverse current at rated DC blocking voltage per diode	IR	mA	Ta=25°C	0.05
			Ta=100°C	10

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

Note2: Pulse test: pulse width 40mS



SR15120L

■ Thermal Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	SR15120L
Thermal Resistance	Junction to Case	$R_{\theta J-c}$	$^{\circ}\text{C}/\text{W}$	5

■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SR15120L	D1	Approximate 1.05	1250	1250	12500	Tape
SR15120L	C1	Approximate 1.05	250	250	12500	Bulk

■ Characteristics(Typical)

FIG.1: I_o - T_c Curve

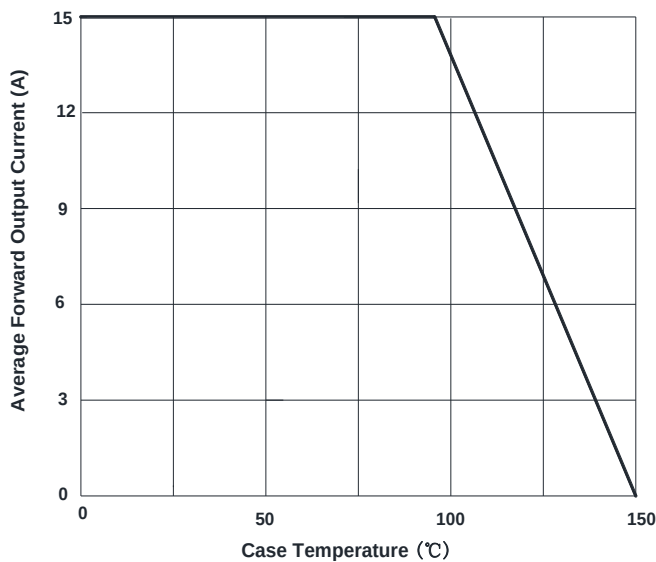


FIG.2: Forward Surge Current Capability

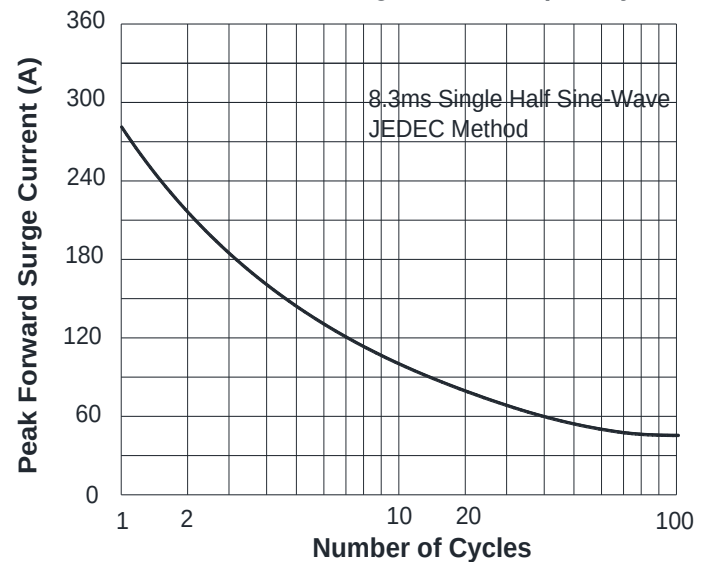


FIG.3: Forward Voltage

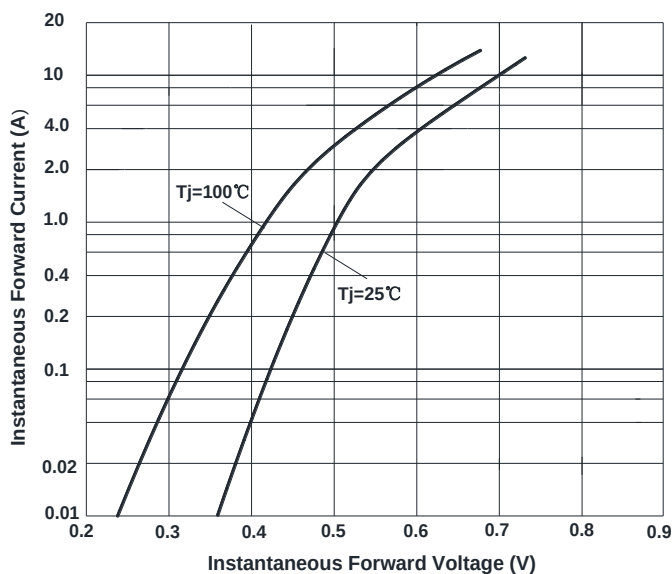
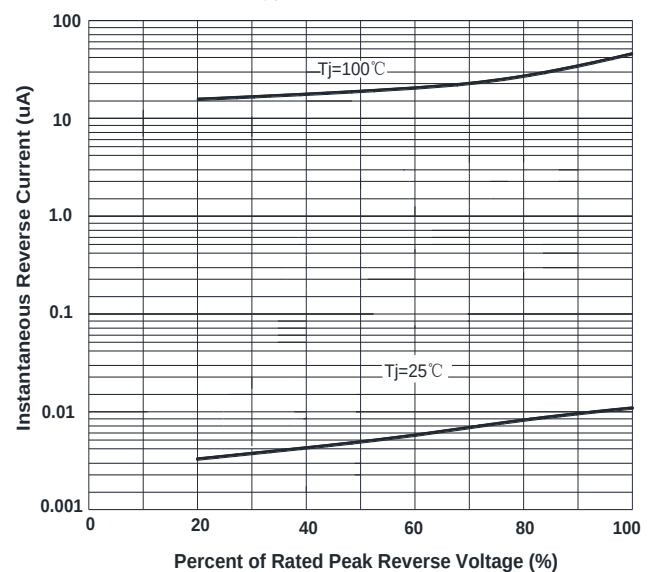
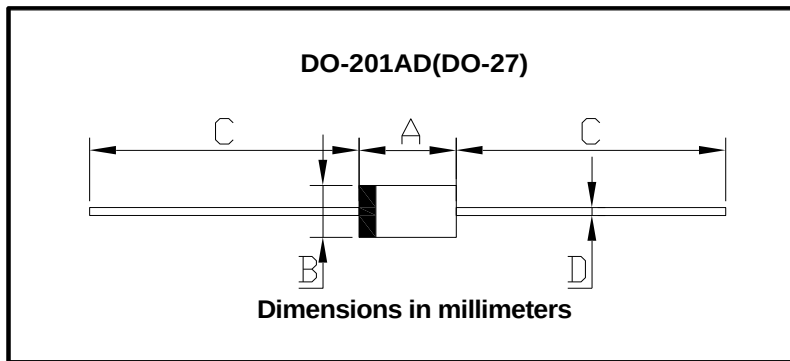


FIG.4: Typical Reverse Characteristics





■ 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



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