

DO-201AD Axial Schottky Barrier Rectifier

● Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

● Applications

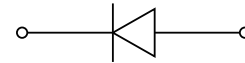
These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping.

● Mechanical Data

- Case: DO-201AD
Molding compound meets UL 94V-0 flammability rating
- Terminals: Solder plated, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Cathode line denotes the cathode end

● Function Diagram

Reverse Voltage
20-100 V
Forward Current
5 Ampere



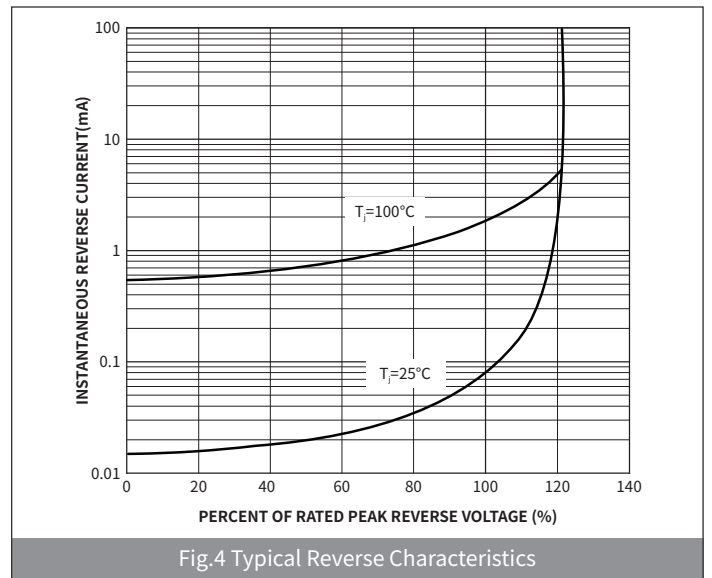
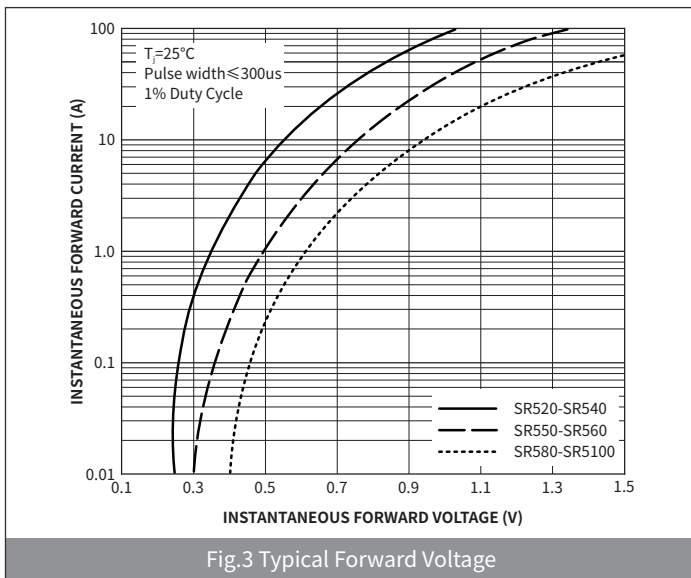
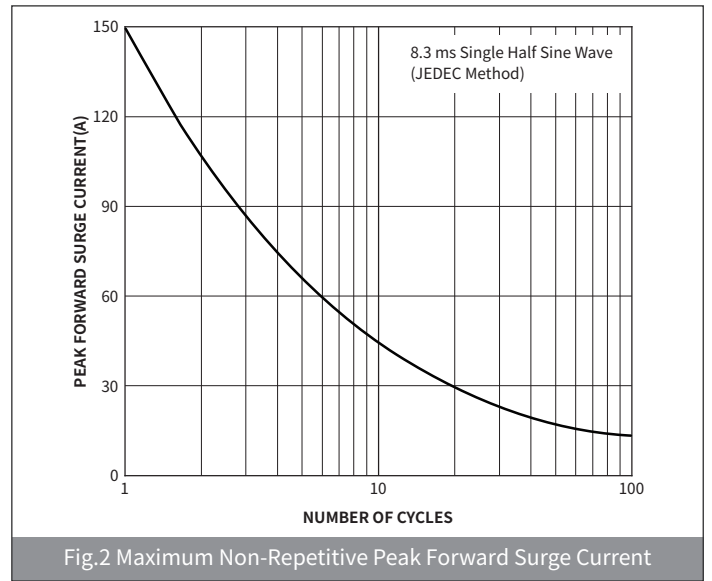
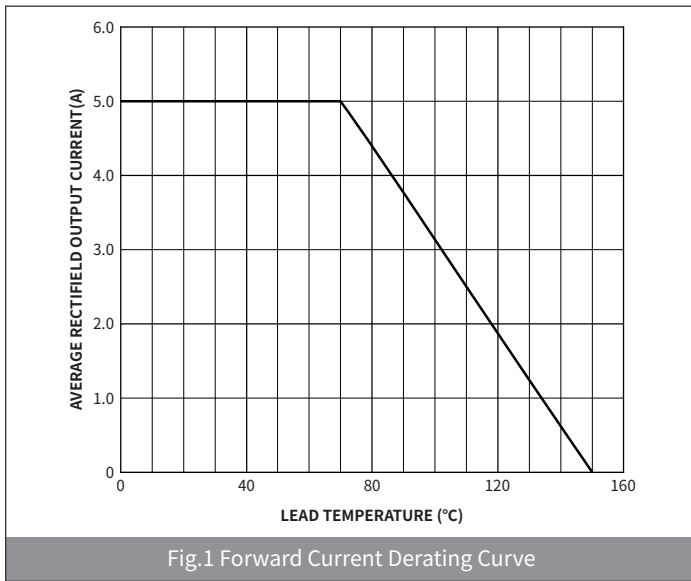
● Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	
Device marking code			SR520	SR530	SR540	SR550	SR560	SR580	SR5100	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	20	30	40	50	60	80	100	
Maximum RMS Voltage	V_{RMS}	V	14	21	28	35	42	56	70	
Maximum DC blocking Voltage	V_{DC}	V	20	30	40	50	60	80	100	
Maximum Average Forward Rectified Current @ 60Hz sinewave, Resistance load, TL (Fig.1)	$I_{F(AV)}$	A	5.0							
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I_{FSM}	A	100						120	
Storage temperature	T_{stg}	°C	-55 ~ +150							
Junction temperature	T_j	°C	-55 ~ +150							
Typical Thermal Resistance	$R_{\theta J-A}$	°C/W	25							
	$R_{\theta J-L}$	°C/W	10							

● **Electrical Characteristics** (Ta=25°C Unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	SR520	SR530	SR540	SR550	SR560	SR580	SR5100	
Maximum instantaneous forward voltage	$I_f=5.0A$	V_f	V	0.55			0.70		0.85		
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_A=25^\circ C$	I_{R1}	mA	0.1						0.02	
	$V_R=V_{DC}, T_A=100^\circ C$	I_{R2}		5						2	
Typical junction capacitance	4.0V DC, 1MHz	C_j	pF	380							

● **Ratings And Characteristics Curves** (Ta=25°C Unless otherwise specified)



SR520 THRU SR5100

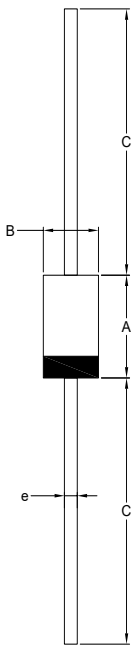
AXIAL SCHOTTKY BARRIER RECTIFIER

● Ordering Information

PACKAGE	UNIT WEIGHT(g)	BOX(pcs)	CARTON(pcs)
DO-201AD	0.954	1200	12000

● Package Outline Dimensions (DO-201AD)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	7.200	9.500	0.285	0.375
B	5.000	5.600	0.197	0.220
C	25.400	-	1.000	-
e	1.150	1.250	0.046	0.050



The diagram shows a side view of the DO-201AD package. Dimension A is the height of the main body. Dimension B is the width of the main body. Dimension C is the total height, including the leads. Dimension e is the width of the leads. The package has a central body with a shaded area at the bottom, and two leads extending from the top and bottom.