

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.

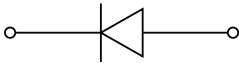
Mechanical Data

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

Function Diagram

Reverse Voltage
40-100 V
Forward Current
5 Ampere

DO-201AD



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

PARAMETER	SYMBOL	UNIT	SR540L	SR560L	SR5100L
Device marking code			SR540L	SR560L	SR5100L
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	40	60	100
Maximum RMS Voltage	V _{RMS}	V	28	42	70
Maximum DC blocking Voltage	V _{DC}	V	40	60	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	120		
Storage temperature	T _{stg}	°C	-55 to +150		
Junction temperature	T _j	°C	-55 to +150		
Typical Thermal Resistance	R _{θJ-A}	°C /W	20		
	R _{θJ-L}	°C /W	10		

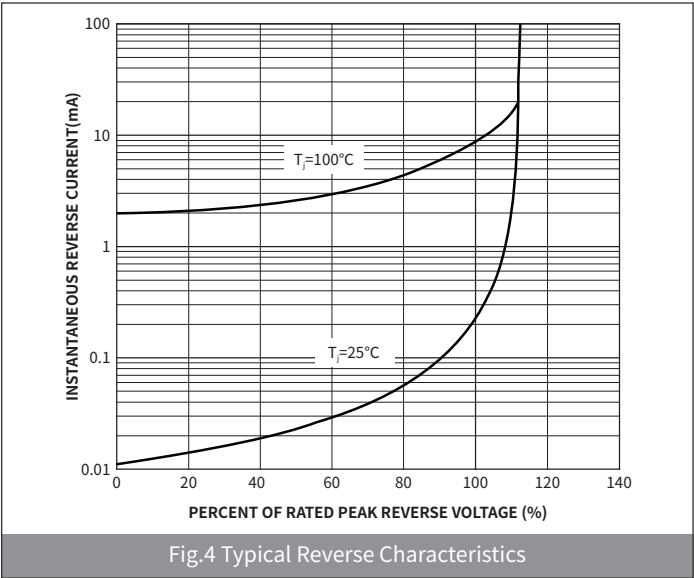
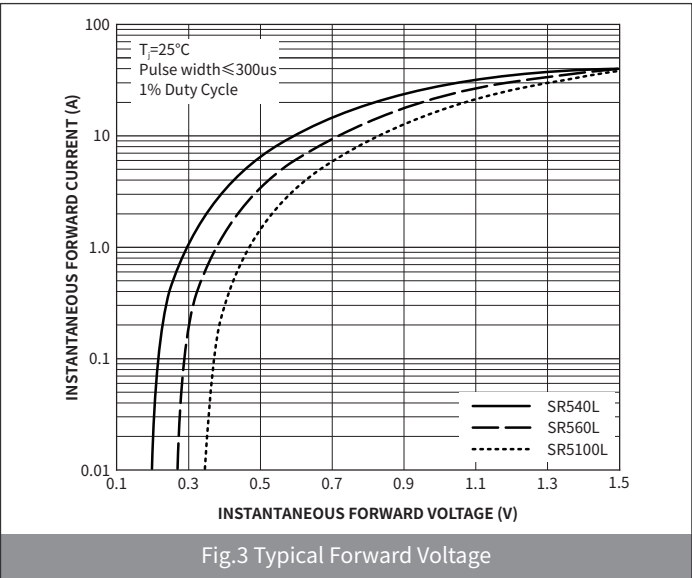
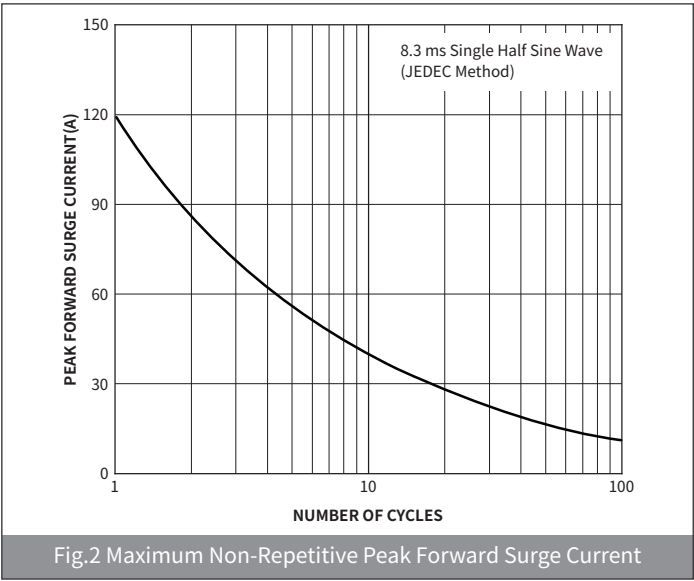
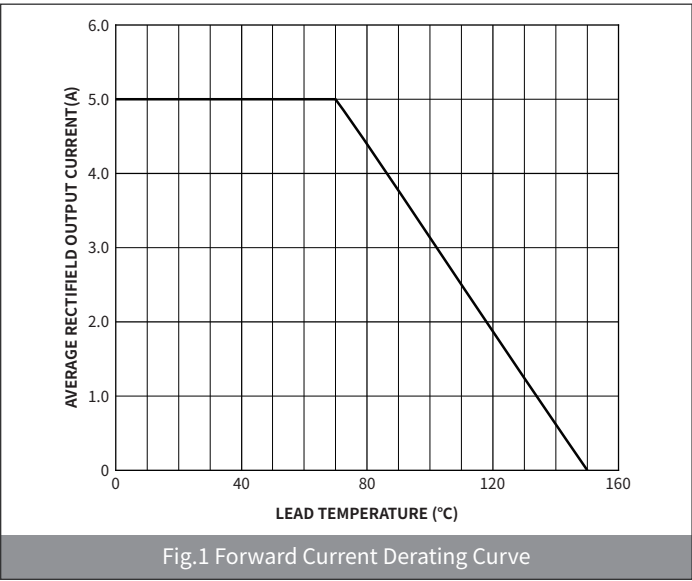
SR540L THRU SR5100L

AXIAL SCHOTTKY BARRIER RECTIFIER

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

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	SR540L	SR560L	SR5100L
Maximum instantaneous forward voltage	$I_F=5.0A$	V_F	V	0.46	0.55	0.72
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_A=25^{\circ}C$	I_{R1}	mA	0.2	0.25	0.05
	$V_R=V_{DC}, T_A=100^{\circ}C$	I_{R2}		20	25	15
Typical junction capacitance	4.0V DC, 1MHz	C_J	pF	570		380

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



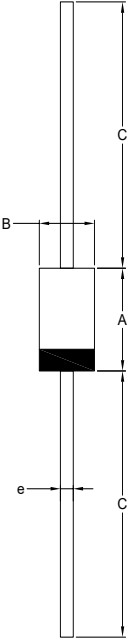
SR540L THRU SR5100L

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● 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