

## DO-15 Axial Schottky Barrier Rectifier

### ● Features

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

### ● Applications

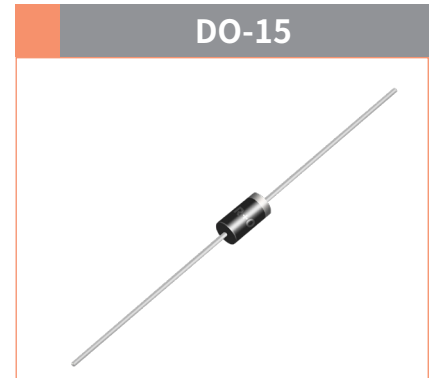
These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping.

### ● Mechanical Data

- Case: DO-15  
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**  
2 Ampere



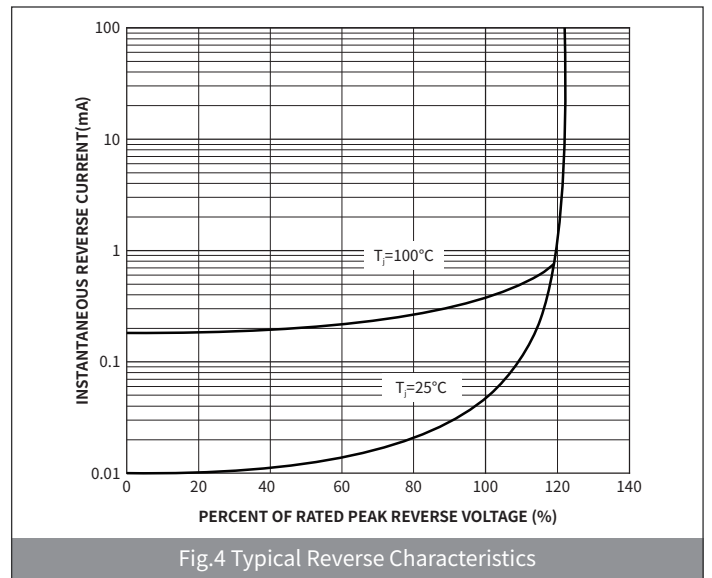
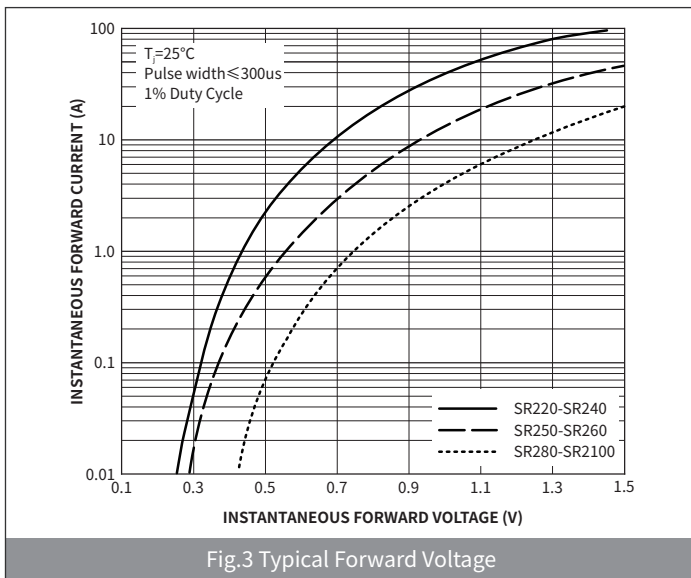
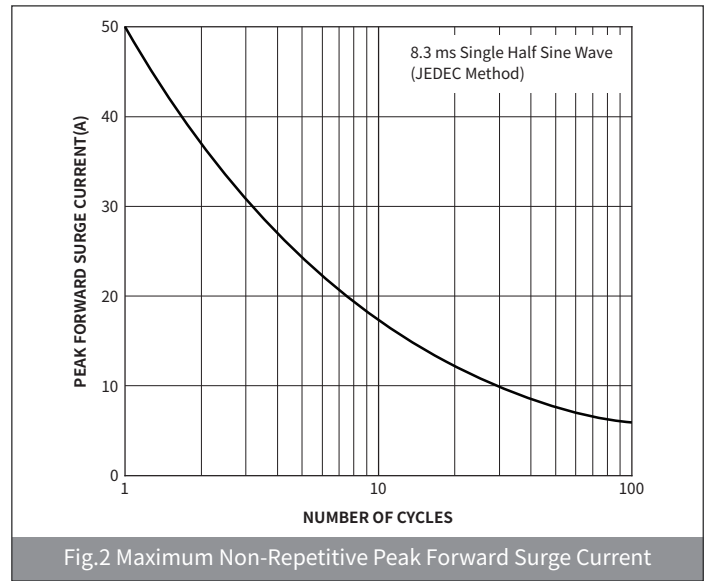
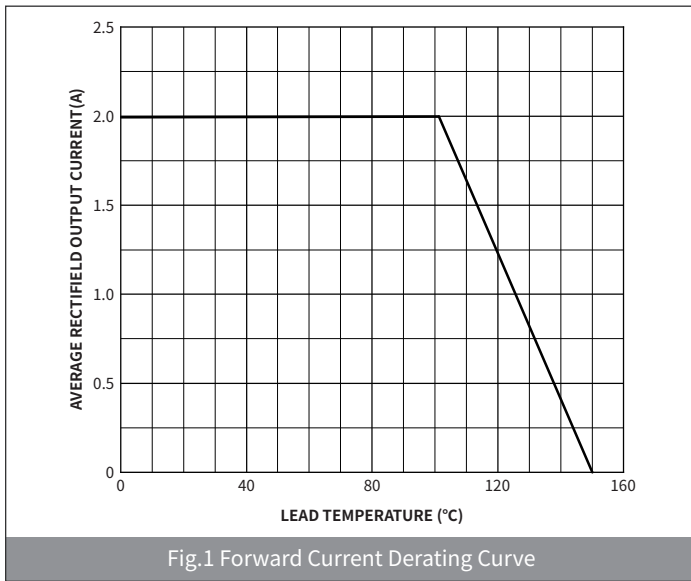
### ● Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SR220	SR230	SR240	SR250	SR260	SR280	SR2100
Device marking code			SR220	SR230	SR240	SR250	SR260	SR280	SR2100
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	2.0						
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	$I_{FSM}$	A	50						
Storage temperature	$T_{stg}$	°C	-55 ~ +150						
Junction temperature	$T_j$	°C	-55 ~ +150						
Typical Thermal Resistance	$R_{\theta J-A}$	°C/W	35						
	$R_{\theta J-L}$	°C/W	10						

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

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	SR220	SR230	SR240	SR250	SR260	SR280	SR2100
Maximum instantaneous forward voltage	$I_F=2.0A$	$V_F$	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	170						

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



# SR220 THRU SR2100

AXIAL SCHOTTKY BARRIER RECTIFIER

## ● Ordering Information

PACKAGE	UNIT WEIGHT(g)	BOX(pcs)	CARTON(pcs)
DO-15	0.318	3000	30000

## ● Package Outline Dimensions (DO-15)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	5.800	7.600	0.300	0.230
B	2.600	3.600	0.104	0.140
C	25.400	-	1.000	-
e	0.700	0.900	0.028	0.034

