

DO-41 Axial Schottky Barrier Rectifier

● Features

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

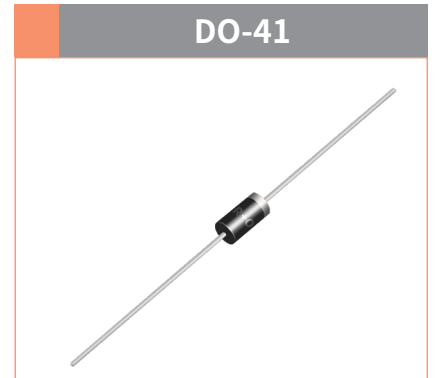
Reverse Voltage
20-100 V
Forward Current
1 Ampere

● Applications

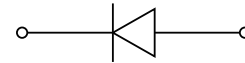
These Schottky barrier diodes are designed for high speed switching applications, circuit protection, and voltage clamping.

● Mechanical Data

- Case: DO-41
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



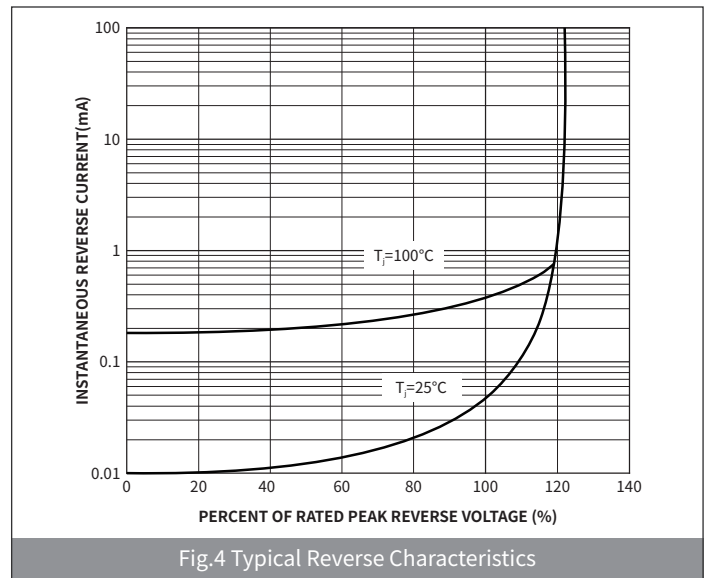
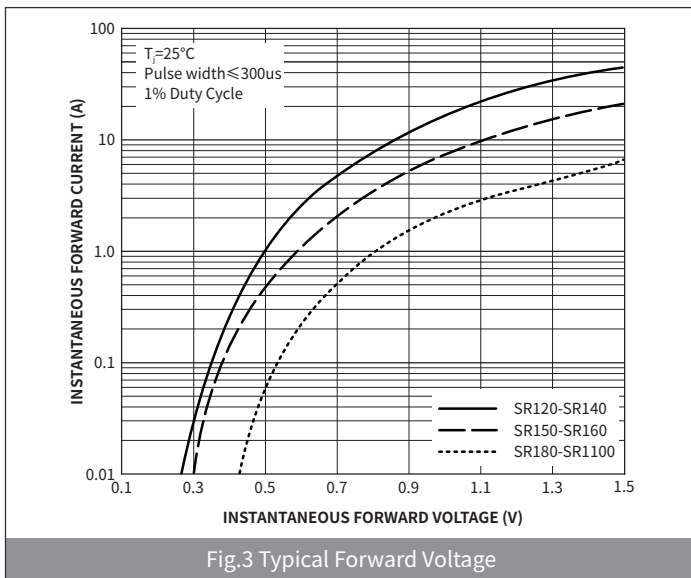
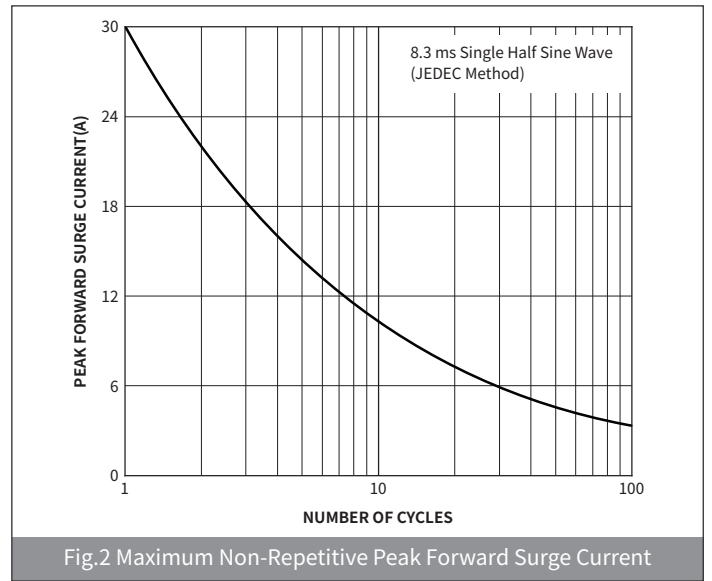
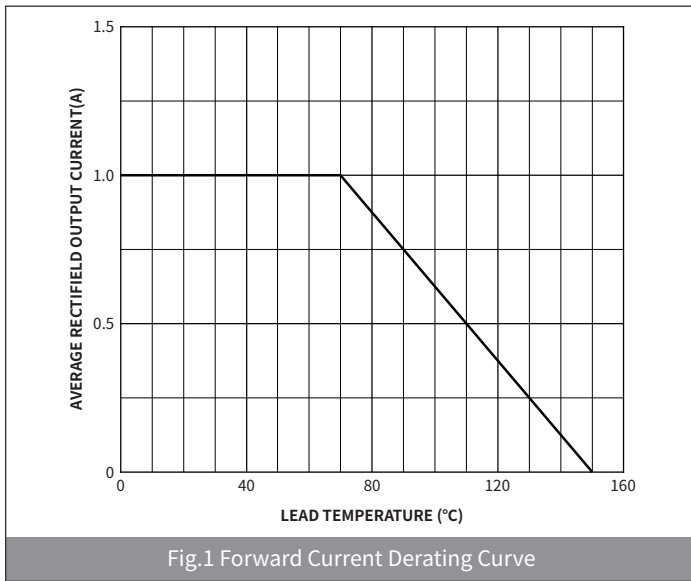
● Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SR120	SR130	SR140	SR150	SR160	SR180	SR1100
Device marking code			SR120	SR130	SR140	SR150	SR160	SR180	SR1100
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	1.0						
Non-repetitive Peak Forward Surge Current @ t=8.3ms Half-sine wave	I_{FSM}	A	30						
Storage temperature	T_{stg}	°C	-55 ~ +150						
Junction temperature	T_j	°C	-55 ~ +150						
Typical Thermal Resistance	$R_{\theta J-A}$	°C/W	50						
	$R_{\theta J-L}$	°C/W	12						

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

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	SR120	SR130	SR140	SR150	SR160	SR180	SR1100
Maximum instantaneous forward voltage	$I_F=1.0A$	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	110						

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



SR120 THRU SR1100

AXIAL SCHOTTKY BARRIER RECTIFIER

● Ordering Information

PACKAGE	UNIT WEIGHT(g)	BOX(pcs)	CARTON(pcs)
DO-41	0.245	5000	50000

● Package Outline Dimensions (DO-41)

Symbol	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	4.200	5.200	0.166	0.205
B	2.000	2.700	0.080	0.107
C	25.400	-	1.000	-
e	0.700	0.900	0.028	0.034

