

Features

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

Reverse Voltage

20-100 V

Forward Current

5 Ampere

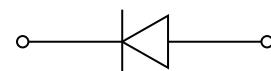
DO-201AD

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-750, Method 2026
- Polarity: Cathode line denotes the cathode end



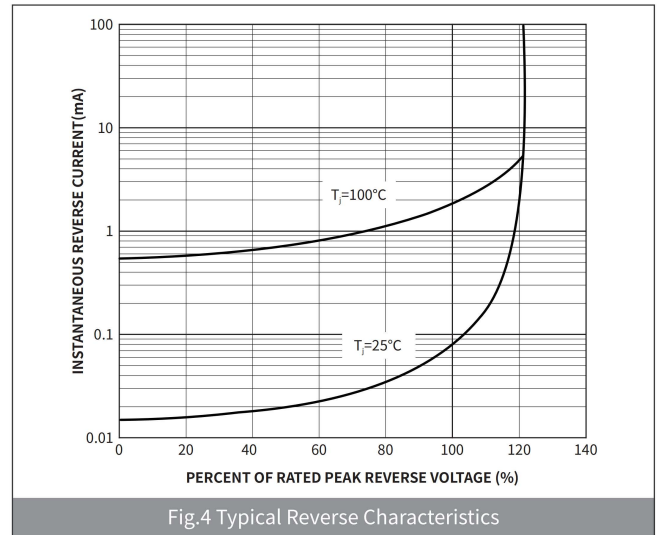
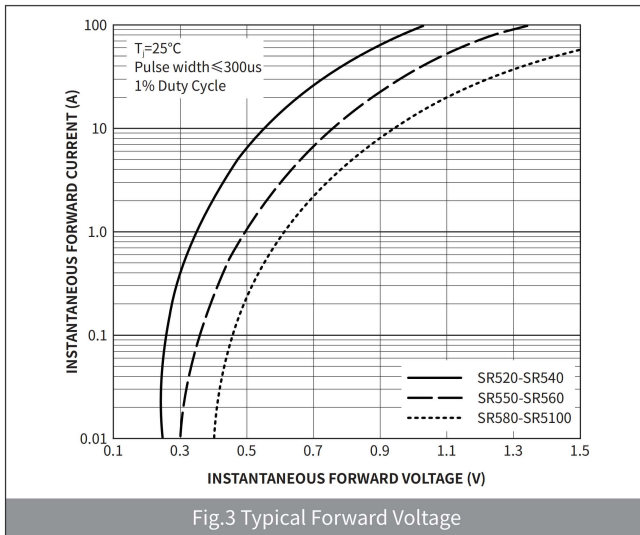
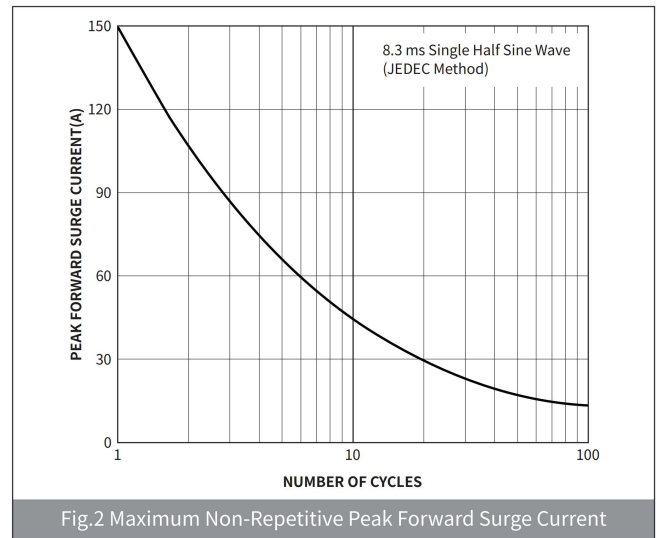
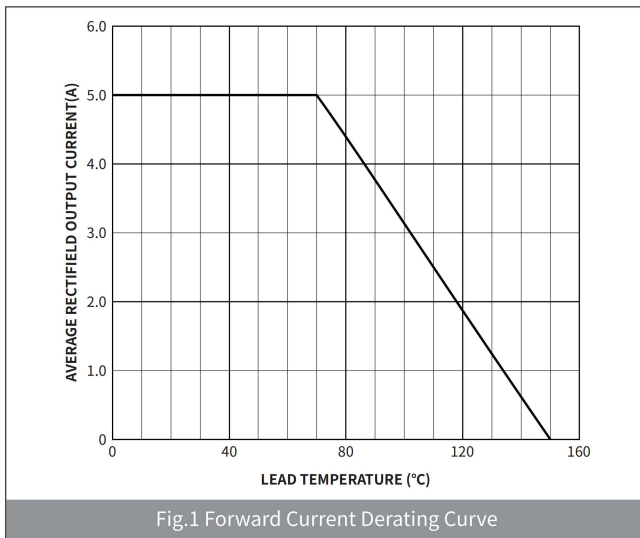
Maximum Ratings (Ta=25°C Unless otherwise specified)

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	150						
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 ($T_a=25^\circ\text{C}$ 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 currentat rated DC blocking voltage	V _R =V _{DC} , T _A =25°C	I _{R1}	mA	0.1					0.02	
	V _R =V _{DC} , T _A =100°C	I _{R2}		5					2	
Typical junction capacitance	4.0V DC,1MHz	C _J	pF	380						

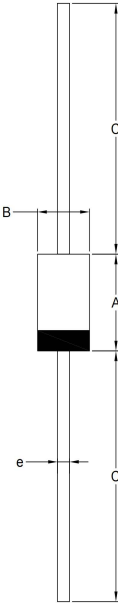
Ratings And Characteristics Curves ($T_a=25^\circ\text{C}$ Unless otherwise specified)



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