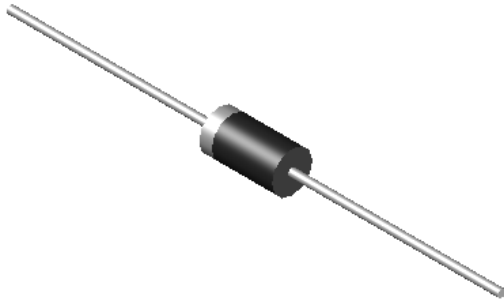


Schottky Barrier Rectifier

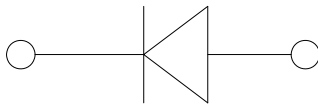


Features

- Guardring for overvoltage protection
- Very small conduction losses
- Extremely fast switching
- High forward surge capability
- High frequency operation
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.



Mechanical Data

- **Package:** DO-201AD(DO-27)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Color band denotes the cathode end

■Maximum Ratings (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200
Device marking code			SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200
Repetitive Peak Reverse Voltage	V _{RRM}	V	20	30	40	50	60	80	100	150	200
Average Rectified Output Current @60Hz sine wave, Resistance load, T _a (FIG.1)	I _O	A	3.0								
Surge(Non-repetitive)Forward Current @ 60Hz Half-sine wave, 1 cycle, T _a =25°C	I _{FSM}	A	80								
Storage Temperature	T _{stg}	°C	-55 ~+150								
Junction Temperature	T _j	°C	-55 ~+125				-55 ~+150				

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =3.0A	0.55			0.7		0.85			
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	mA	T _a =25°C	0.2					0.1			
			T _a =100°C	20					5			
Typical junction capacitance	C _j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	200								



SR320 THRU SR3200

■ Thermal Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	SR3150	SR3200
Thermal Resistance	R θ J-A	$^{\circ}\text{C}/\text{W}$	25								

■ Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SR320~SR3200	D1	Approximate 1.05	1250	1250	12500	Tape
SR320~SR3200	C1	Approximate 1.05	250	250	12500	Bulk

■ Characteristics(Typical)

FIG.1: I_o - T_a Curve

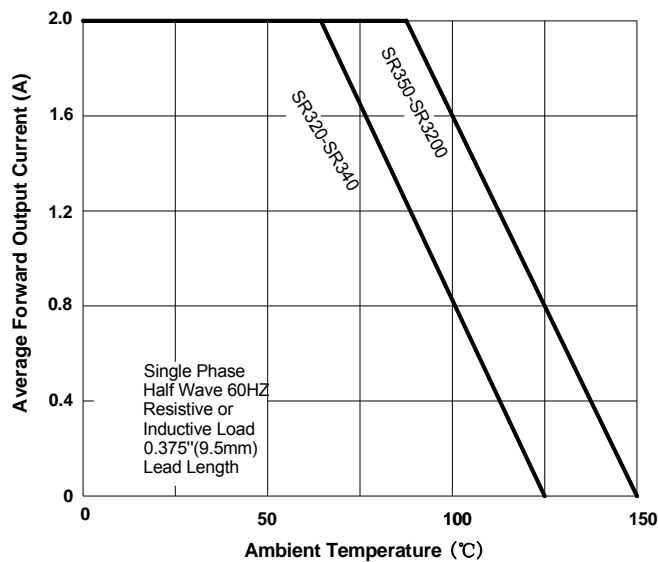


FIG.2: Surge Forward Current Capability

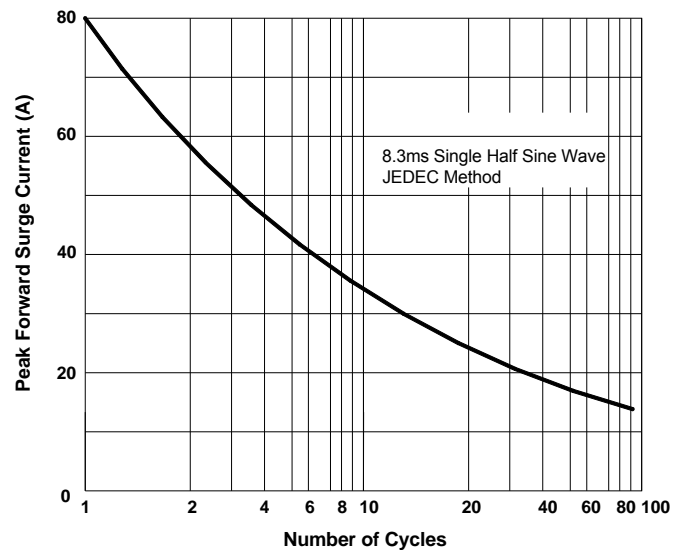


FIG.3: Forward Voltage

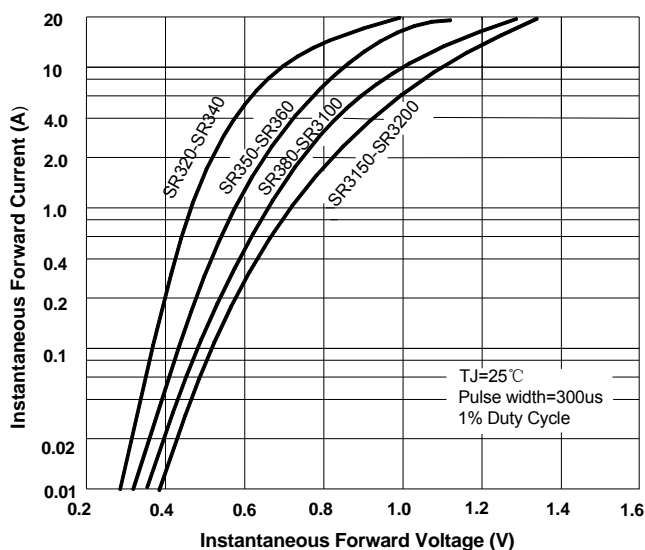
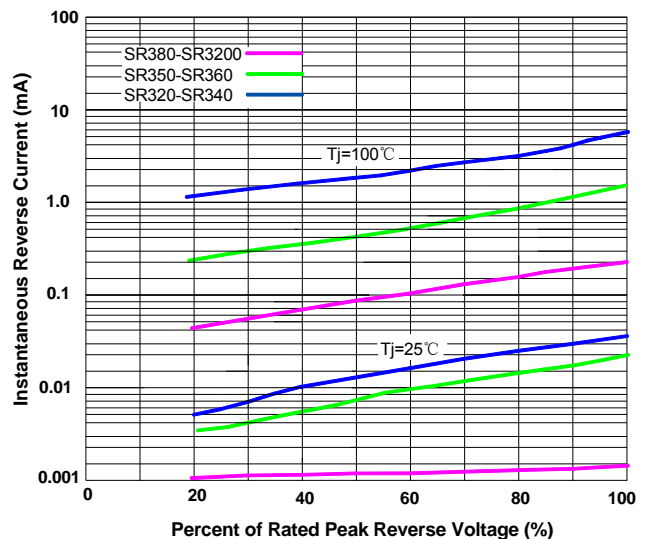
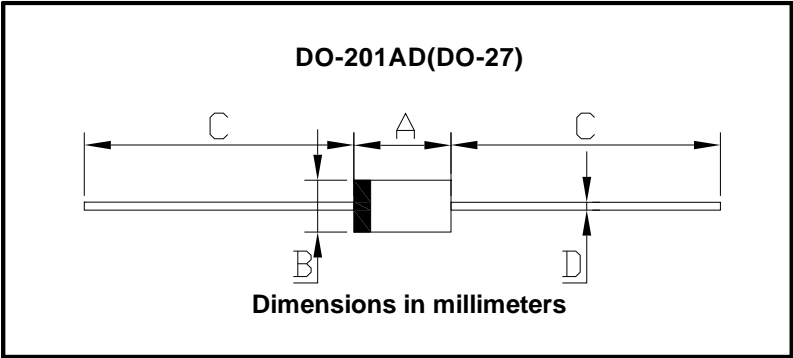


FIG.4: Typical Reverse Characteristics





■ Outline Dimensions



DO-201AD(DO-27)		
Dim	Min	Max
A	8.50	9.50
B	5.00	5.60
C	25.4	/
D	1.20	1.30



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