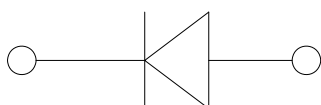
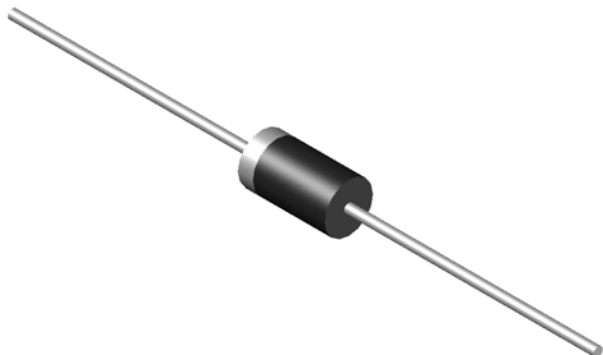


Schottky Barrier Rectifier



Features

- Guardring for overvoltage protection
- Low forward voltage drop, Low power losses
- 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, -
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Color band denotes the cathode end

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

PARAMETER	SYMBOL	UNIT	SRT5100L
Device marking code			SRT5100L
Repetitive Peak Reverse Voltage	VRRM	V	100
Maximum RMS Voltage	VRMS	V	70
Maximum DC blocking Voltage	VDC	V	100
Average Rectified Output Current @60Hz sine wave, Resistance load, Ta (FIG.1)	IO	A	5.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Ta=25°C	IFSM	A	120
Storage Temperature	Tstg	°C	-55 ~+150
Junction Temperature	Tj	°C	-55 ~+150

SRT5100L

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SRT5100L
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =5.0A	0.6
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	mA	T _a =25°C	0.1
			T _a =100°C	10
Typical junction capacitance	C _j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C	460

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS

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

PARAMETER		SYMBOL	UNIT	SRT5100L
Thermal Resistance	Junction to ambient	R _{θJ-A}	°C/W	20

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SRT5100L	D1	Approximate 1.05	1250	1250	12500	Tape
SRT5100L	C1	Approximate 1.05	250	250	12500	Bulk
SRT5100L	G1	Approximate 1.05	500	500	12000	Bulk

■ Characteristics(Typical)

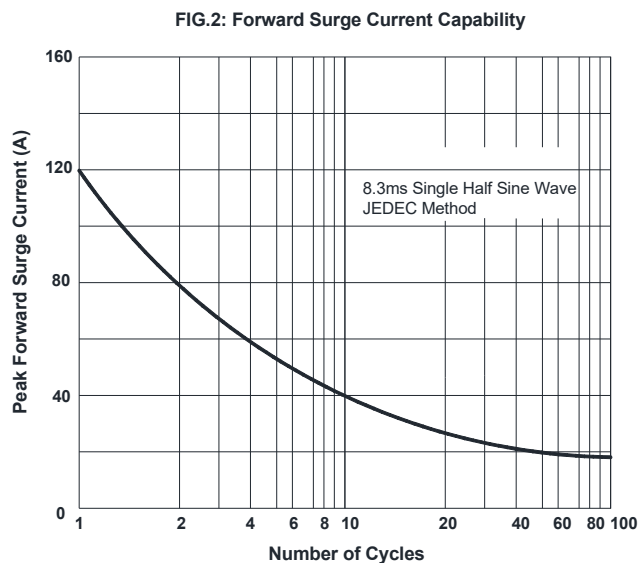
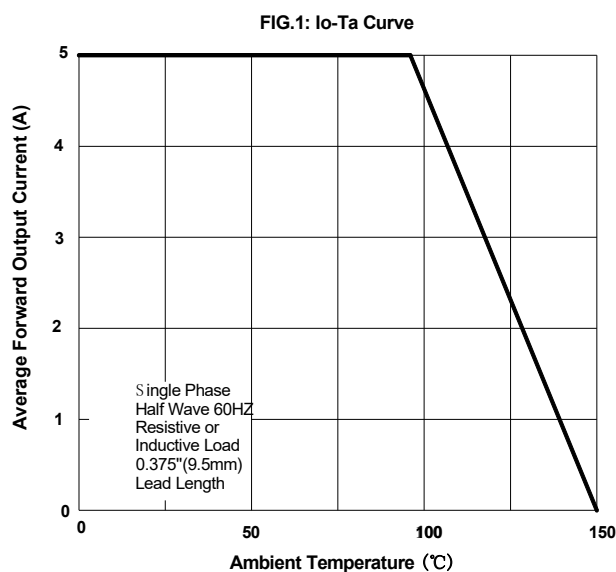


FIG.3: Forward Voltage

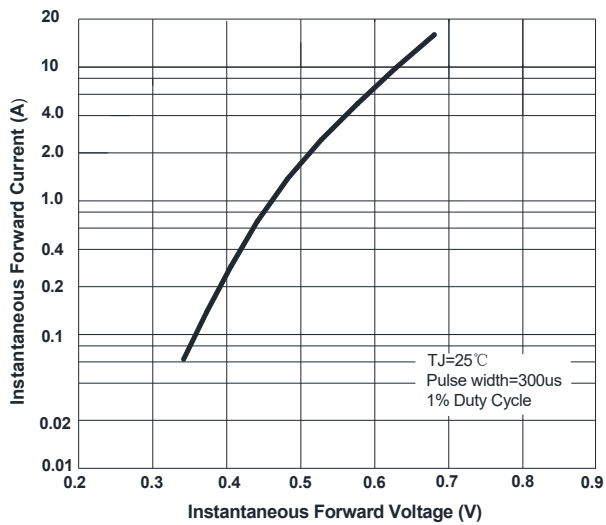
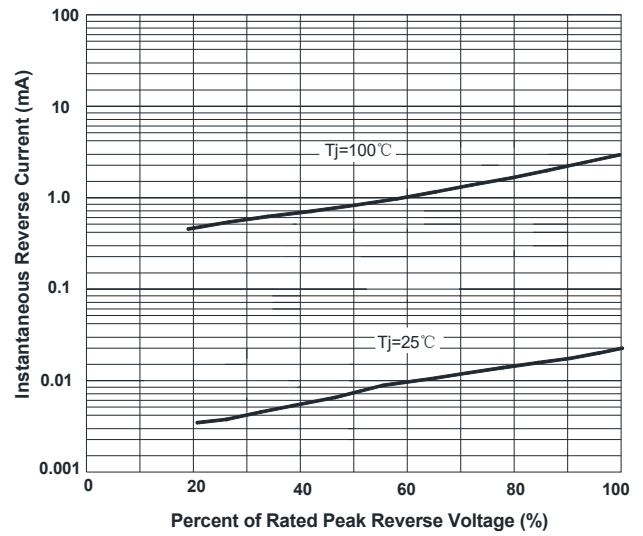
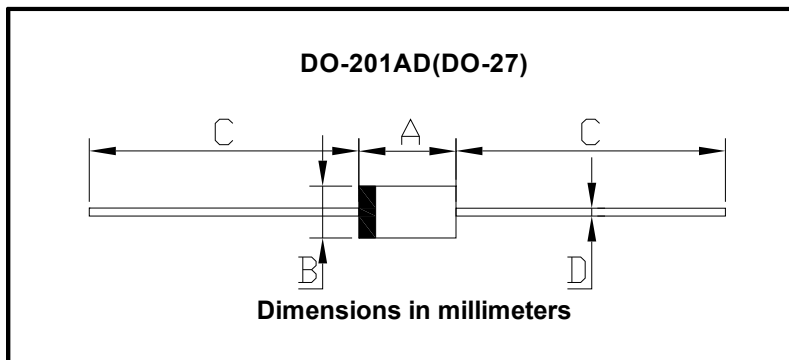


FIG.4: Typical Reverse Characteristics



■ Outline Dimensions



DO-201AD(DO-27)		
Dim	Min	Max
A	8.50	9.50
B	5.00	5.60
C	25.4	/
D	1.2	1.3

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