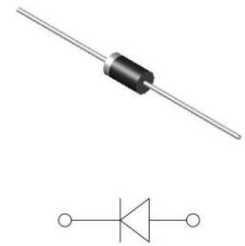


Features

- ◆ Low power loss
- ◆ Guardring for overvoltage protection
- ◆ Extremely fast switching
- ◆ High frequency operation
- ◆ High forward surge capability

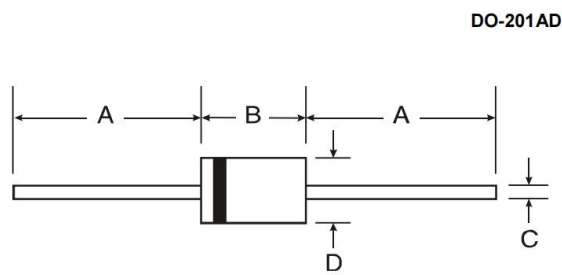


Mechanical Data

- ◆ Package: DO-201AD(DO-27)
- ◆ Package Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- ◆ Moisture Sensitivity: Level 1 per J-STD-020

Dimensions (DO-201AD/DO-27)

Symbol	Dimension	
	Min	Max
A	25.40	-
B	7.20	9.50
C	1.20	1.30
D	4.80	5.30



Maximum Ratings And Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	SR320	SR330	SR340	SR350	SR360	SR380	SR3100	Unit
Repetitive peak reverse voltage	V_{RRM} V_{RWM} V_R	20	30	40	50	60	80	100	V
Average Forward Current	$I_{F(AV)}$	3.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	80							A
Maximum instantaneous forward voltage @3A	V_{FM}	0.55			0.7		0.85		V
Maximum DC reverse current at rated DC blocking voltage per diode@ $V_{RM}=V_{RRM}$	I_{RM} @ 25°C I_{RM} @ 125°C	0.2							mA
		20							
Thermal resistance	$R_{\theta J-A}$	25							$^{\circ}\text{C}/\text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 ~ +150							$^{\circ}\text{C}$

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Figure 1. Forward Current Derating Curve **Figure 2. Maximum Non-Repetitive Forward Surge Current**

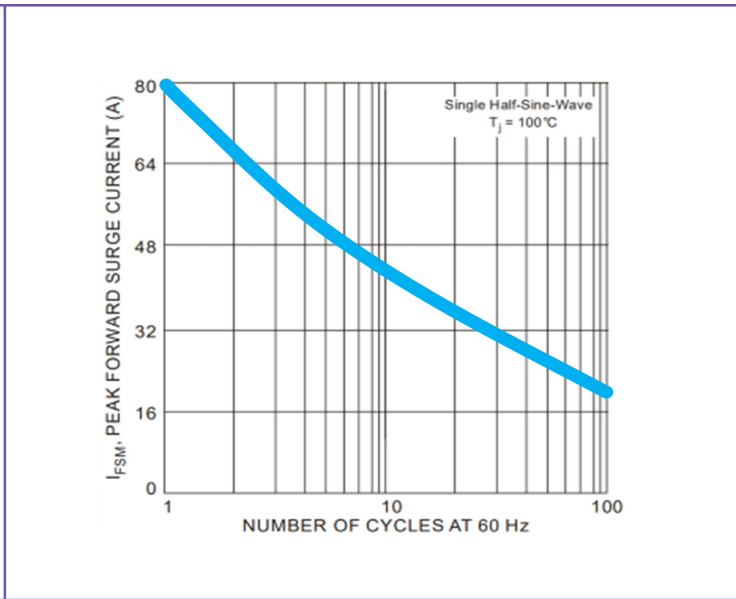
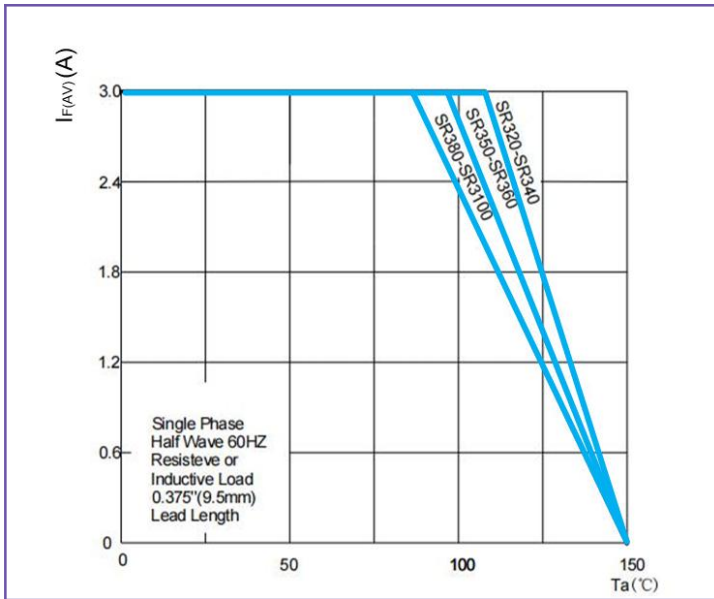


Figure 3. Typical Forward Characteristics

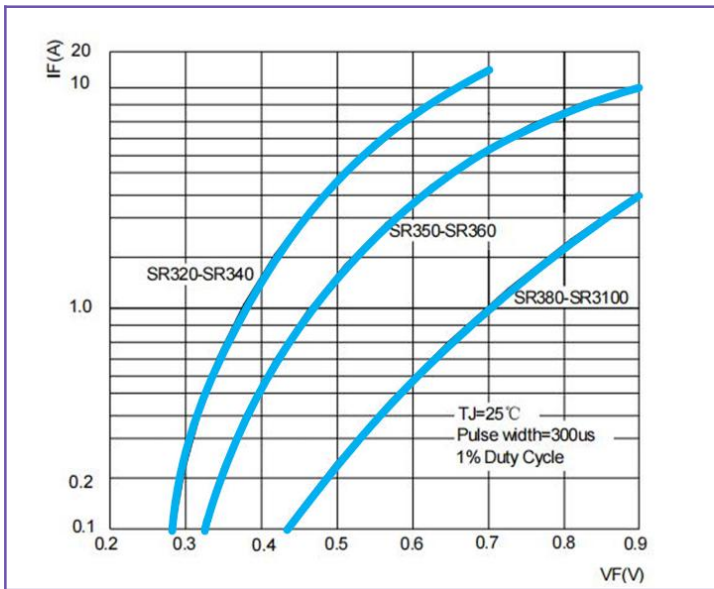
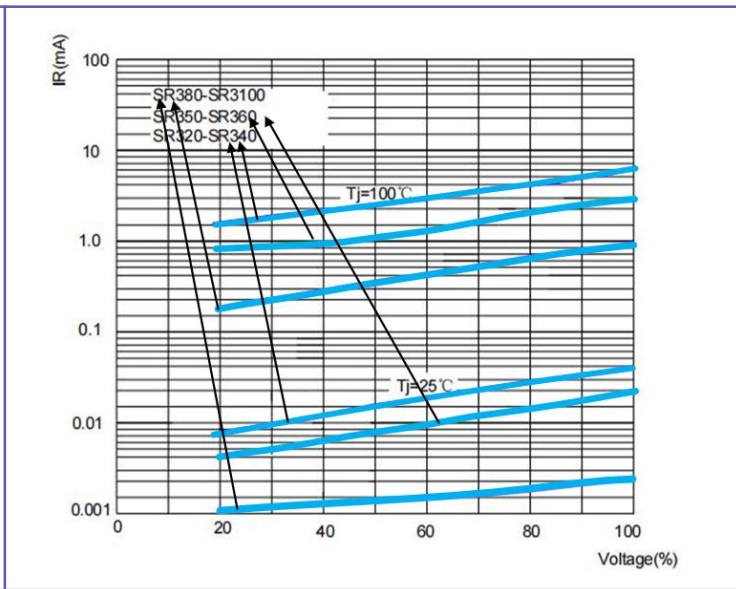
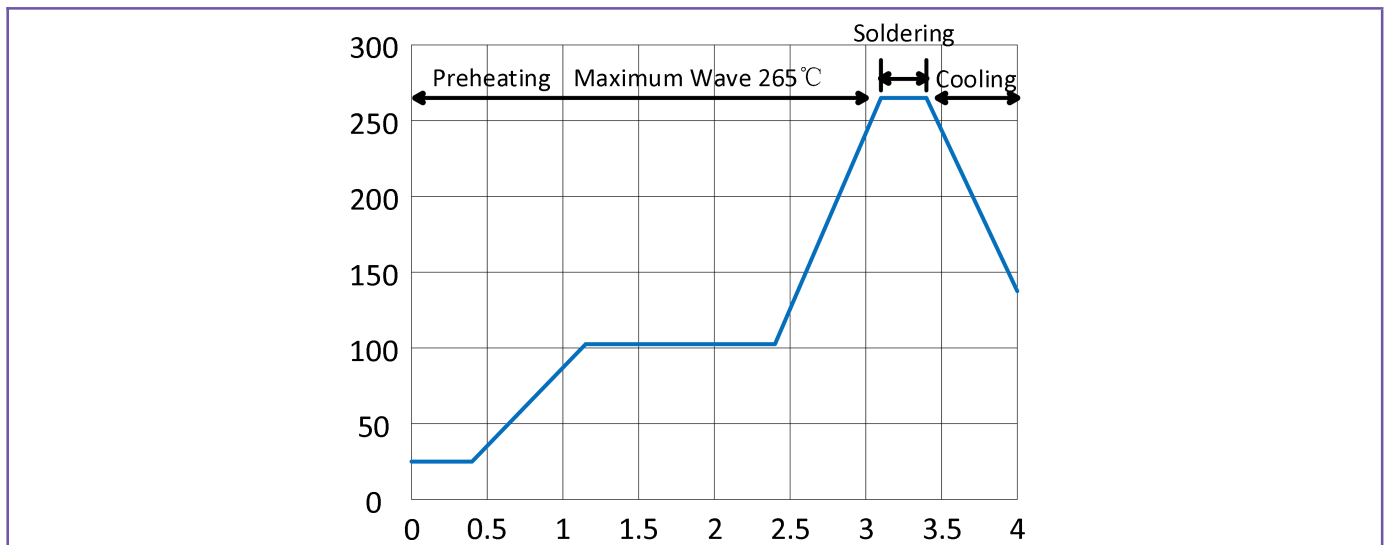


Figure 4. Typical Reverse Characteristics



Wave Soldering Parameters



Condition	Lead-free Assembly
Peak Temperature	265°C
Dipping Time	10 seconds
Soldering	1 time