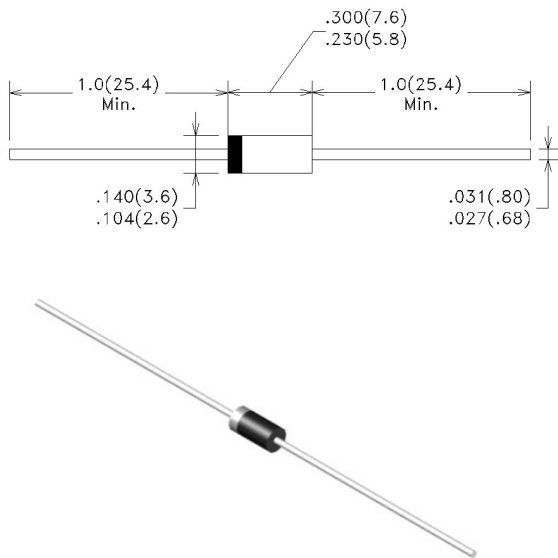


Reverse Voltage - 40~200 V

Forward Current - 2.0 A

Package Outline Dimensions in mm (inches)
DO-15



Features

- Guardring for overvoltage protection
- High reliability
- Low forward voltage drop
- High forward surge capability
- High frequency operation
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC

Typical Applications

- For use in low voltage, high frequency inverters.

Mechanical Data

- Case: DO-15 Plastic Package
- Polarity: Color band denotes cathode end

Maximum ratings

Ratings at TA=25°C (unless otherwise specified)

Parameter	Symbol	SR 240	SR 245	SR 260	SR 280	SR 2100	SR 2150	SR 2200	Unit
Maximum recurrent peak reverse voltage	V _{RRM}	40	45	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	28	31	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	40	45	60	80	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}	2.0							A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	50							A
Storage temperature range	T _S	-55 ~ 150							°C
Operating Junction temperature range	T _J	-55 ~ 125		-55 ~ 150					°C
Thermal Resistance (Note1)	R _{thJA}	45							°C /W

Electrical characteristics

Ratings at TA=25°C (unless otherwise specified)

Parameter	Test Conditions	Symbol	SR 240	SR 245	SR 260	SR 280	SR 2100	SR 2150	SR 2200	Unit
Maximum forward voltage	IF=2.0 A	VF	0.55		0.7	0.85		0.95		V
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	IR	0.2			0.1				mA
	TA=100°C		20			5				
Typical junction capacitance	4.0V, 1MHz	Cj	100		80			50		pF

Characteristics Curves

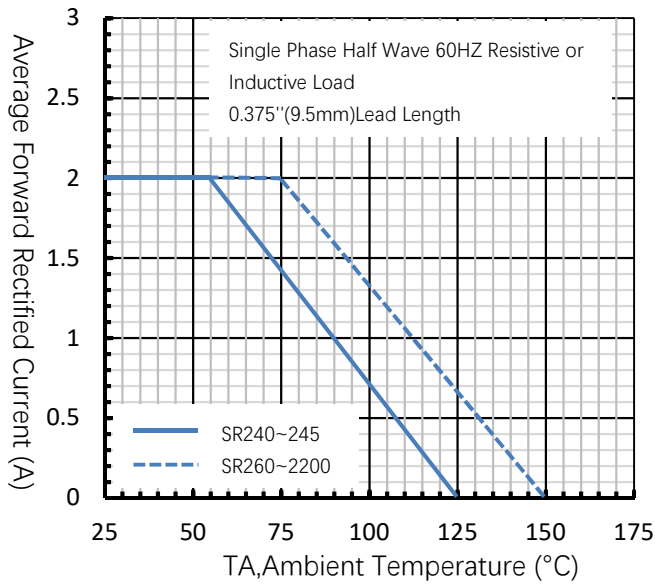


Fig.1 Forward Current Derating Curve

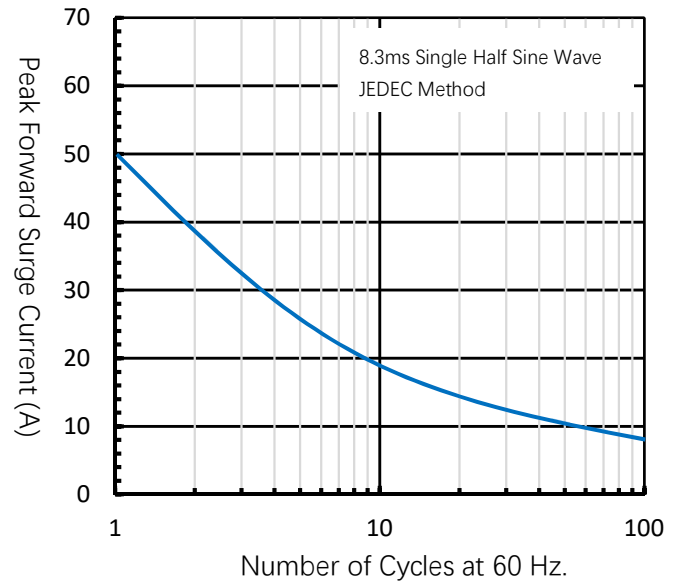


Fig.2 Forward Surge Current Capability

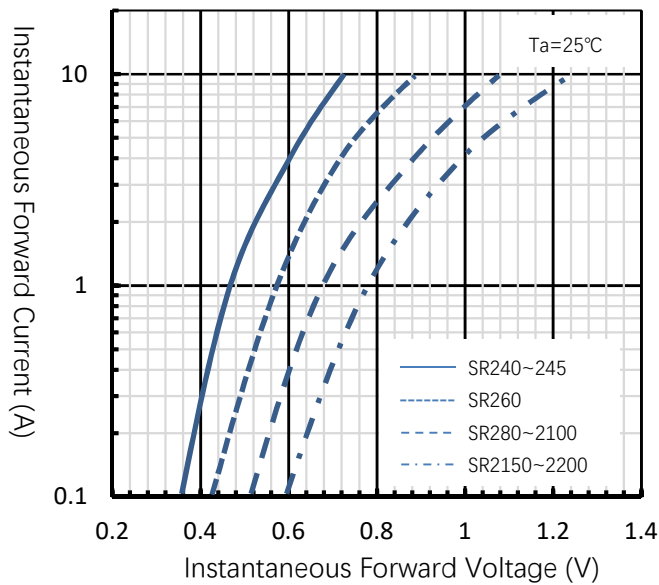


Fig. 3 Typical Forward Characteristic

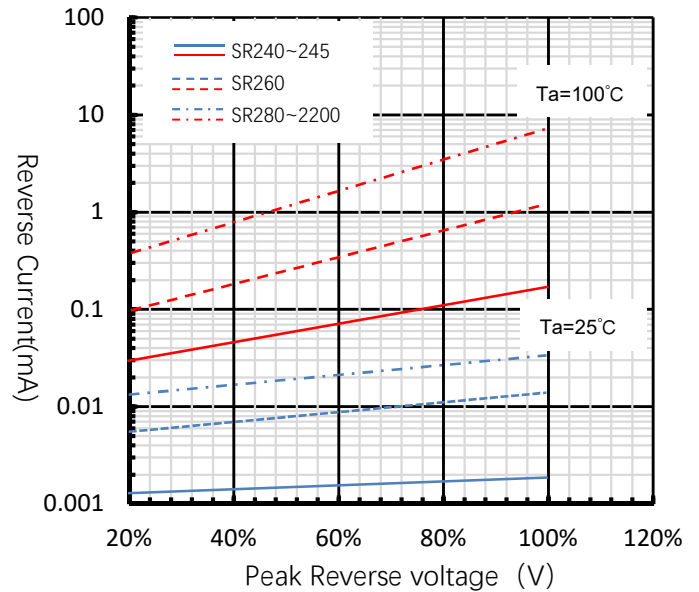


Fig. 4 Typical Reverse Characteristics