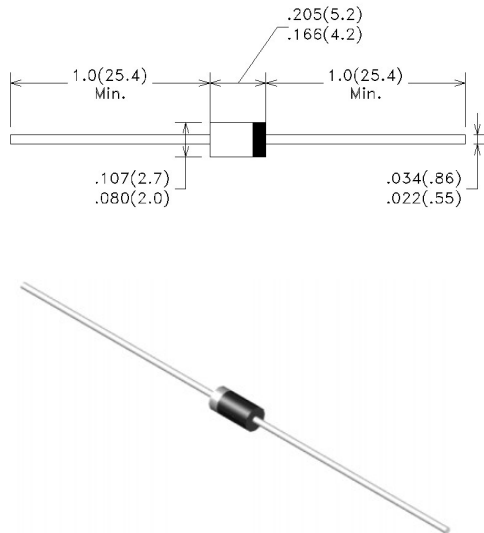


Package Outline Dimensions in mm (inches)

DO-41



Reverse Voltage - 20 to 200 V

Forward Current - 1.0A

Features

- Metal-Semiconductor junction with guarding
- Very low forward voltage drop
- High forward surge capability
- 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-41 Plastic Package
- Polarity:Color band denotes cathode end

Maximum ratings

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

Parameter	Symbol	SR120	SR140	SR160	SR1100	SR1150	SR1200	Unit
Maximum recurrent peak reverse voltage	VRRM	20	40	60	100	150	200	V
Maximum DC blocking voltage	VDC	20	40	60	100	150	200	V
Maximum average forward rectified current	IF(AV)	1.0						A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	IFSM	40						A
Storage temperature range	TS	-55 ~ 150						°C
Operating Junction temperature range	Tj	-55 ~ 150						°C
Thermal Resistance	RthJA	55						°C /W

Electrical characteristics

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

Parameter	Test Conditions	Symbol	SR120	SR140	SR160	SR1100	SR1150	SR1200	Unit
Maximum forward voltage	IF=1.0 A	VF	0.55		0.70	0.85	0.90		V
Maximum DC reverse current at rated DC blocking voltage	TA=25°C	IR	0.1			0.05	0.03		mA
	TA=100°C		5.0			1.0			

Fig.1 Forward Current Derating Curve

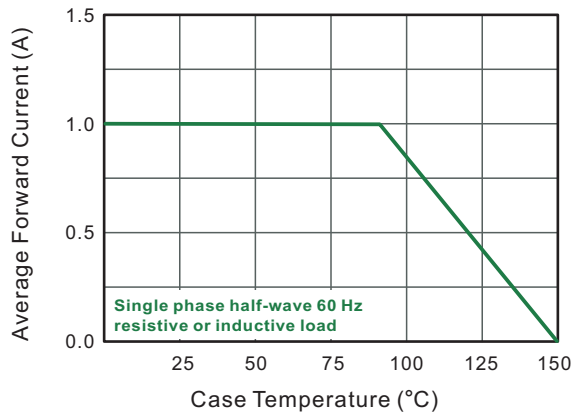


Fig.2 Typical Reverse Characteristics

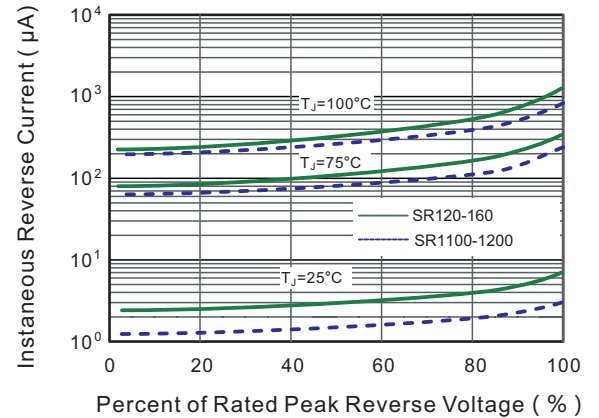


Fig.3 Typical Forward Characteristic

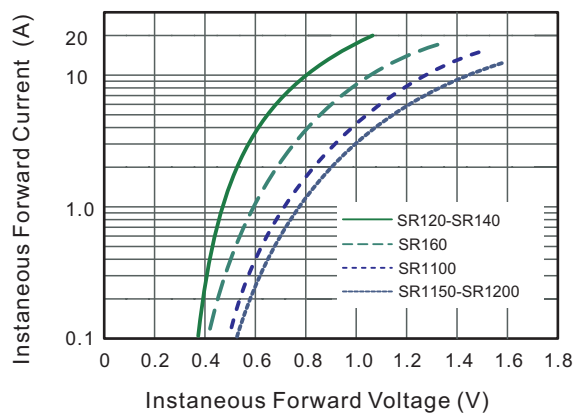


Fig.4 Typical Junction Capacitance

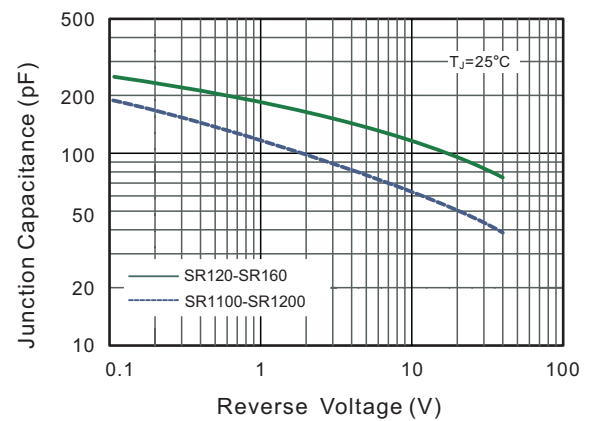


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

