



SR120 THRU SR1200

Schottky Barrier Rectifier

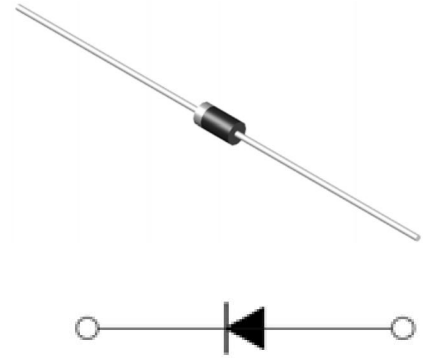
Reverse Voltage -20V to 200V

Forward Current -1.0A

DO-41

Features

- High current capability
- High surge current capability
- Low forward voltage drop
- Exceeds environmental standards of MIL-S-19500/228
- For use in low voltage, high frequency inverters free Wheeling, and porlarlity protection applications



Maximum Ratings and Electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20%

Parameter		Symbol	SR 120	SR 130	SR 140	SR 150	SR 160	SR 180	SR 1100	SR 1150	SR 1200	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current		I _{F(AV)}	1.0									A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method)		I _{FSM}	30									A
Max Instantaneous Forward Voltage at 1A		V _F	0.55			0.70		0.85		0.95		V
Maximum DC Reverse Current at Rated DC Reverse Voltage	T _a = 25°C	I _R	0.5									mA
	T _a =100°C		10									
Typical Junction Capacitance ⁽¹⁾		C _j	110									pF
Typical Thermal Resistance ⁽²⁾		R _{θJA}	50									°C/W
Operating Junction Temperature		T _j	-55~+125			-55~+150						°C
Storage Temperature Range		T _{stg}	-55~+150									°C

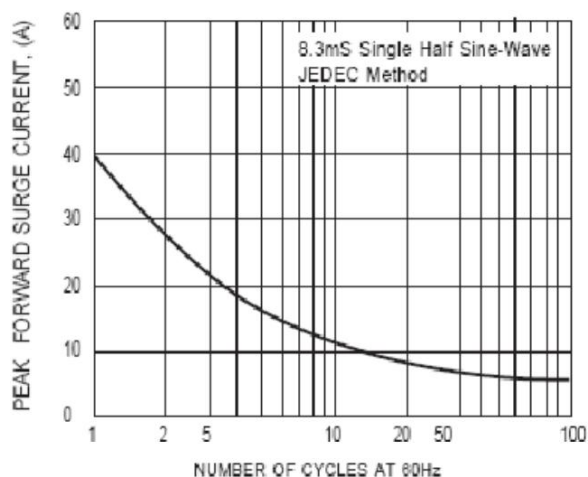
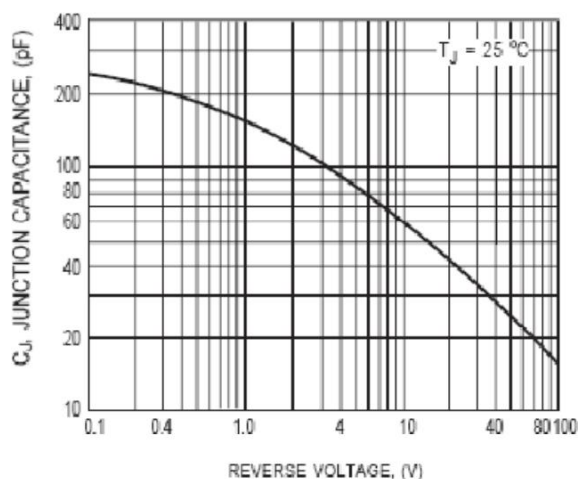
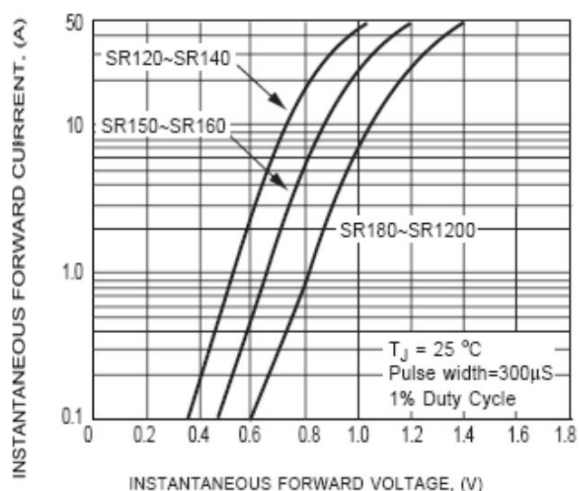
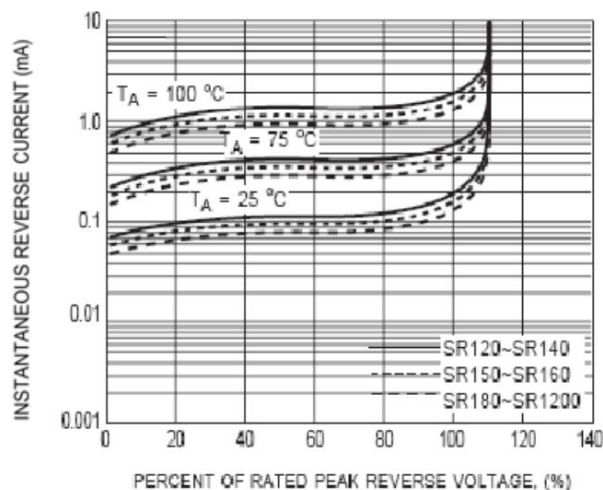
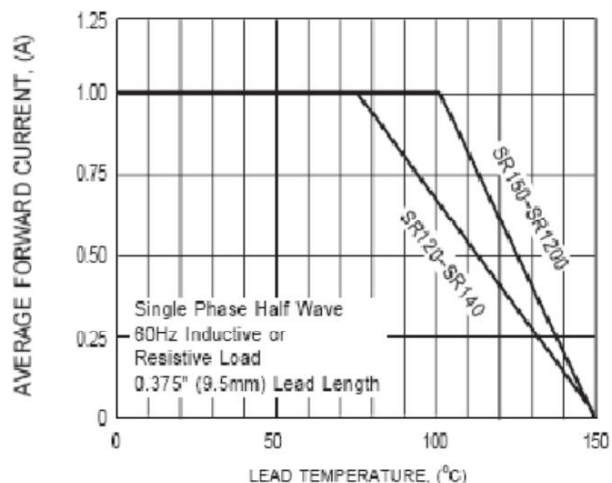
(1) Measured at 1MHz and applied reverse voltage of 4V D.C

(2) Thermal Resistance From Junction to Ambient 0.375" (9.5mm) lead length P.C.B. Mounted with 0.22" x 0.22" (5.5 x 5.5mm) copper pad areas



SR120 THRU SR1200

Typical Characteristics



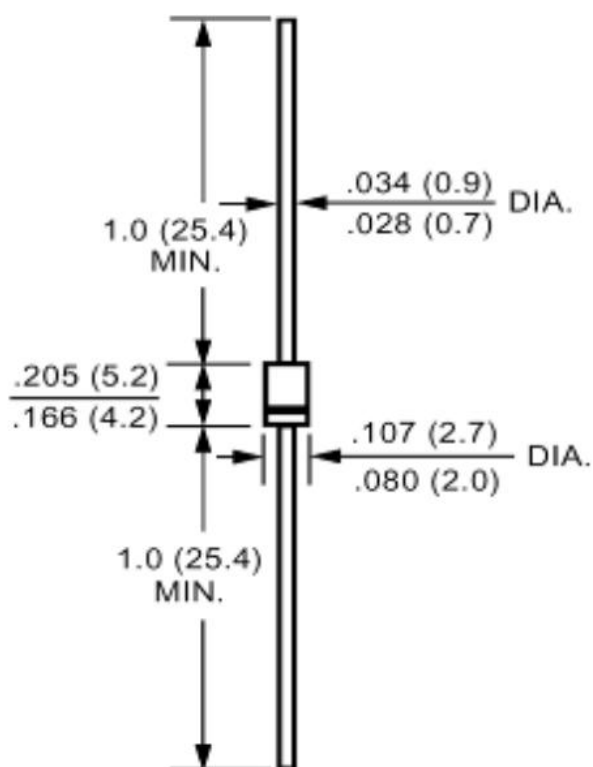


SR120 THRU SR1200

Package Information

DO-41

Dimensions in mm





SR120 THRU SR1200

Shikues Disclaimer

1.Accuracy of Information and Right to Modify

The information provided in this document is for reference only. Shikues reserves the right to make changes to this document and to the specifications of the products described herein at any time, without prior notice, for the purpose of improving reliability, function, design, or for any other reason. It is the customer's responsibility to obtain and verify the latest product information and specifications before making any final design, procurement, or usage decisions.

2.No Warranty

Shikues makes no express or implied warranties, representations, or guarantees regarding the suitability of its products for any particular purpose.

Shikues assumes no liability for any assistance provided or for the design of customer products. All products are supplied "as is."

3.Intended Use and Limitation of Liability

The products described in this document are intended for use in general-purpose electronic devices. They are neither designed nor tested nor authorized for use in transportation equipment or applications requiring high reliability. Unless expressly authorized in writing by Shikues, these products must not be used as critical components in life-support systems or any applications where failure could directly pose a risk to human life (including, but not limited to, medical devices, transportation systems, aerospace equipment, nuclear facilities, and safety-critical systems).

Shikues assumes no responsibility or liability for any consequences arising from the use of its products in unauthorized or unintended applications.

Neither Shikues nor its representatives shall be held liable for any resulting damages.

4.Intellectual Property

This document does not grant any express or implied license—whether by estoppel, implication, or otherwise—to use any intellectual property rights of Shikues.