

(Package: DO-41)

### II. Schottky Rectifier

# 1.0A Schottky Rectifier SR120~SR1200

#### **FEATURES**

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- · Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed:
   250 /10 seconds, 0.375" (9.5mm) lead length,
   5 lbs. (2.3kg) tension

#### **MECHANICAL DATA**

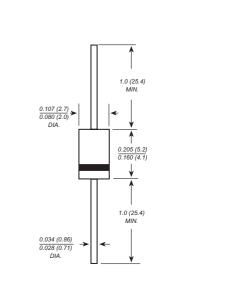
Case: JEDEC DO-41 molded plastic body
Terminals: Plated axial leads, solderable per

MIL-STD-750, Method 2026

• Polarity : Color band denotes cathode end

• Mounting Position : Any

• Weight: 0.33 grams, 0.012 ounce



Case: DO-41

Dimensions in inches and (millimeters)

## **Ratings & Electrical Characteristics**

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

Characteristic	Symbol	SR 120	SR 130	SR 140	SR 150	SR 160	SR 180	SR 1100	SR 1150	SR 1200	Units
Maximum recurrent peak reverse voltage	$V_{RRM}$	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	Volts
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	Volts
Maximum average forward rectified current at derating lead temperature	Io	1.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30									Amps
Maximum instantaneous forward voltage at 1.0A DC	V <sub>F</sub>		0.55 0			70	0.85		0.95		Volts
Maximum average reverse current Ta = 25°C at rated DC blocking voltage Ta = 100°C	I <sub>R</sub>	0.2									- mA
		2									
Typical thermal resistance (Note 1)	Rth-JA	50									°C/W
	Rth-JL	15									
Typical junction capacitance (Note 2)	Cj		110 80								PF
Operating junction temperature range	Tj	-55	-55 to +125 -55 to +150								°C
Storage temperature range	Tstg	-55 to +150									°C

#### Notes:

http://patron-components.com/

<sup>1.</sup> Thermal resistance : At 9.5mm lead lengths, PCB mounted.

<sup>2.</sup> Measured at 1 MHz and applied reverse voltage of 4.0 volts.



## Ratings and Characteristic Curves of SR120~SR1200

