

# **SR5100**

## VOLTAGE 100V 5.0 Amp Schottky Barrier Rectifiers

**RoHS Compliant Product** 

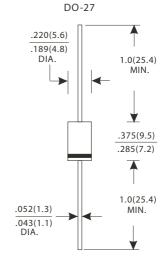
A suffix of "-C" specifies halogen & lead-free

# FEATURES

- \* Low forward voltage drop
- \* High current capability
- \* High reliability
- \* High surge current capability
- \* Epitaxial construction

## **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- \* Polarity: As Marked \* Mounting position: Any
- \* Weight: 1.10 grams(Approximately)



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SR5100	UNITS
Maximum Recurrent Peak Reverse Voltage	100	V
Working Peak Reverse Voltage	100	V
Maximum DC Blocking Voltage	100	V
Maximum Average Forward Rectified Current		
See Fig. 1	5	A
Peak Forward Surge Current, 8.3 ms single half sine-wave		
superimposed on rated load (JEDEC method)	150	A
Maximum Instantaneous Forward Voltage (I <sub>F</sub> = 5 Amps,T <sub>F</sub> = 25°C)	0.82	V
Maximum Instantaneous Forward Voltage (IF = 5 Amps,TF= 125°C)	0.70	V
Maximum DC Reverse Current Ta=25°C	0.5	mA
at Rated DC Blocking Voltage Ta=125°C	20	mA
Typical Junction Capacitance (Note1)	700	pF
Typical Thermal Resistance RθJA (Note 2)	28	°C/W
Operating Temperature Range T <sub>J</sub>	-50 ~ +150	°C
Storage Temperature Range T <sub>STG</sub>	-65 ~ +175	°C

#### NOTES

- 1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
- 2. Thermal Resistance Junction to Ambient.

Any changing of specification will not be informed individual

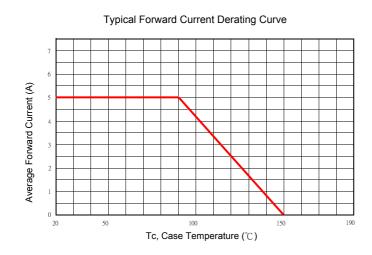


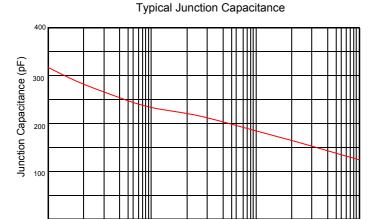
### **Elektronische Bauelemente**

# **SR5100**

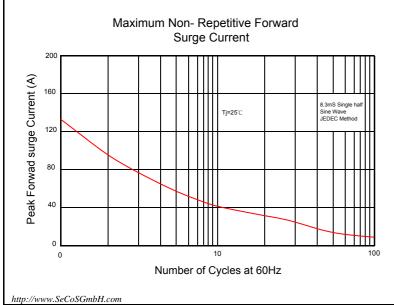
## VOLTAGE 100V 5.0Amp Schottky Barrier Rectifiers

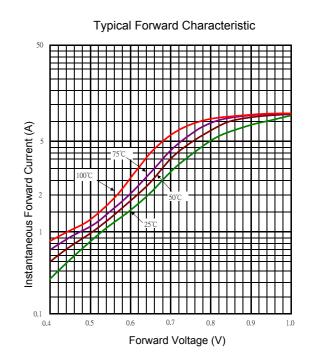
### RATING AND CHARACTERISTIC CURVES

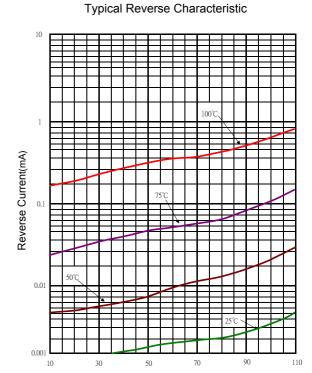




Revise Voltage (%)







Reverse Voltage(V)

Any changing of specification will not be informed individual

01-July-2009 Rev. D Page 2 of 2