#### **Schottky Rectifier** II.

# 8.0A Surface Mount Schottky Rectifier SS82~SS820

### **FEATURES**

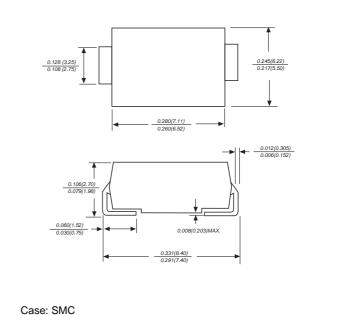
- · For surface mounted applications
- Low profile package
- · Built-in strain relief
- · Easy pick and place
- · Plastic material used carries Underwriters Laboratory Classification 94V-0
- Extremely low VF
- Majority carrier conduction
- · High temperature soldering : 260 /10 seconds at terminals

## MECHANICAL DATA

 Case: DO-214AB (SMC) • Terminals : Solder plated

· Polarity: Indicated by cathode band

· Weight: 0.22 grams



(Package: SMC (DO-214AB))

Dimensions in inches and (millimetres)

## **Ratings & Electrical Characteristics**

ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristics	Symbol	SS82	SS83	SS84	SS85	SS86	SS88	SS810	SS815	SS820	Units
Maximum repetitive 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 current 0.375" (9.5mm) lead length at T∟= 75	lo	8.0									Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	150.0									Amps
Maximum instantaneous forward voltage at 8.0A	V <sub>F</sub>	0.55			0.	.75 0.		.85 0.		95	Volts
Maximum DC reverse current Ta = 25 at rated DC blocking voltage Ta = 100	I <sub>R</sub>	1.0 20.0									mA
Maximum thermal resistance (Note 2)	Rth-JA Rth-JL	75 20									/w
Operating junction temperature range	Tj	-50 to +125									
Storage and operating temperature range	Tstg	-55 to +150									

#### Notes:

- 1. Pulse test with Pulse Width = 300µsec., 1% duty cycle
- 2. Mounted on P.C. Board with 8mm<sup>2</sup> (0.13mm thick) copper pad areas

# Ratings and Characteristic Curves of SS82~SS820

Fig.1 - FORWARD CURRENT DERATING CURVE

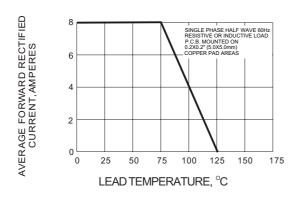


Fig.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

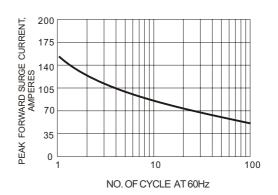


FIG.3-TYPICAL FORWARD

