

# **GLASS PASSIVATED SILICON RECTIFIER**

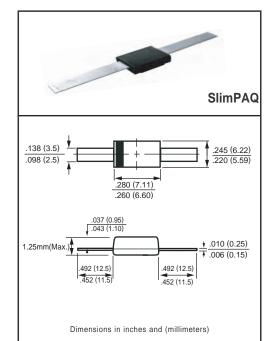
VOLTAGE 200 Volts CURRENT 8.0 Ampere

#### **FEATURES**

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

### **MECHANICAL DATA**

- \* Case: Slim PAQ
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.

#### MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

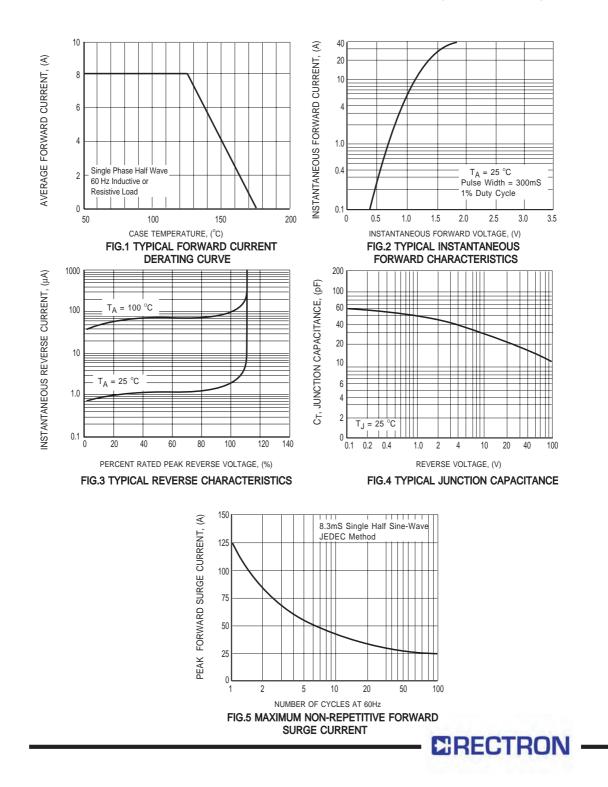
RATINGS	SYMBOL	SPAC803F	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	200	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	140	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	200	Volts
Maximum Average Forward Rectified Current at $T_{C}$ = 125 °C	IO	8.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	125	Amps
Typical Current Square Time	I <sup>2</sup> T	64.8	A <sup>2</sup> S
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	6.25	°C/W
	$R_{\theta JA}$	12.5	
	R <sub>θJL</sub>	3.1	1
Typical Junction Capacitance (Note 2)	CJ	40	pF
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 175	٥C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	SPAC803F	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	1.1	Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	I <sub>R</sub>	10	
	@T <sub>A</sub> = 100°C		100	mAmps

2010-05 REV: B

NOTES: 1. Thermal Resistance: Heat-sink case mounted or if PCB mounted.
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
3. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
4. Suffix "F" for Reverse Polarity.
5. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.



### RATING AND CHARACTERISTICS CURVES (SPAC803F)

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