



GLASS PASSIVATED SILICON RECTIFIER

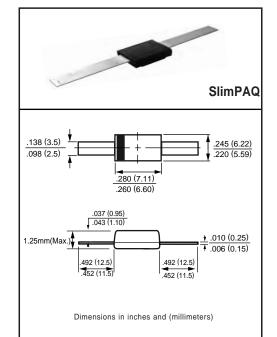
VOLTAGE 400 Volts CURRENT 8 Ampere

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.

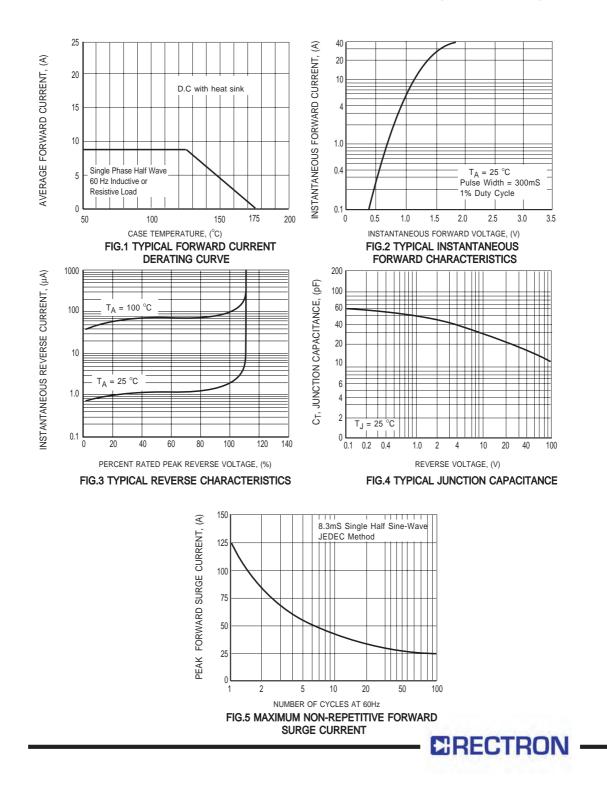
MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	SPAC804F	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	400	Volts
Maximum RMS Voltage	V _{RMS}	280	Volts
Maximum DC Blocking Voltage	V _{DC}	400	Volts
Maximum Average Forward Rectified Current at T _C = 125 °C	IO	8	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	125	Amps
Typical Current Square Time	I ² T	64.8	A ² S
Typical Thermal Resistance (Note 1)	R _{θJC}	6.25	°C/W
	$R_{\theta JA}$	12.5	·C/W
	R _{θJL}	3.1	
Typical Junction Capacitance (Note 2)	CJ	40	pF
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 175	°C

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

CHARACTERISTICS		SYMBOL	SPAC804F	UNITS
Maximum Instantaneous Forward Voltage at 8 A DC		VF	1.1	Volts
	@T _A = 25°C	la la	10	μAmps
	@T _A = 100°C	- ^I R	100	
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.				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 "R" for Reverse Polarity.
5. Available in Halogen-free epoxy by adding suffix -HF after the part nbr.



RATING AND CHARACTERISTICS CURVES (SPAC804F)

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