

**GLASS PASSIVATED SILICON RECTIFIER**

**VOLTAGE 800 Volts CURRENT 8.0 Amperes**

**FEATURES**

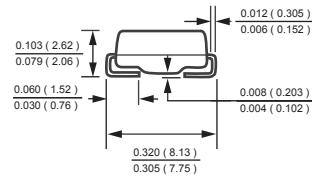
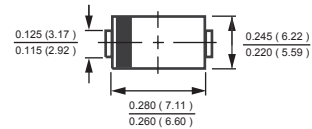
- \* Low leakage
- \* Low Forward voltage drop
- \* High current capability
- \* High surge capability
- \* High reliability

**MECHANICAL DATA**

- \* Epoxy: Device has UL flammability classification 94V-0
- \* Case: Molded plastic
- \* Weight: 0.24 gram



**DO-214AB**



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

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

RATINGS	SYMBOL	FM806C	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	800	Volts
Maximum RMS Voltage	$V_{RMS}$	560	Volts
Maximum DC Blocking Voltage	$V_{DC}$	800	Volts
Maximum Average Forward Rectified Current at $T_C=95^\circ\text{C}$	$I_O$	8.0	Amps
Peak Forward Surge Current 10 ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	200	Amps
Operating Temperature Range	$T_J$	150	°C
Storage Temperature Range	$T_{STG}$	-55 to + 150	°C

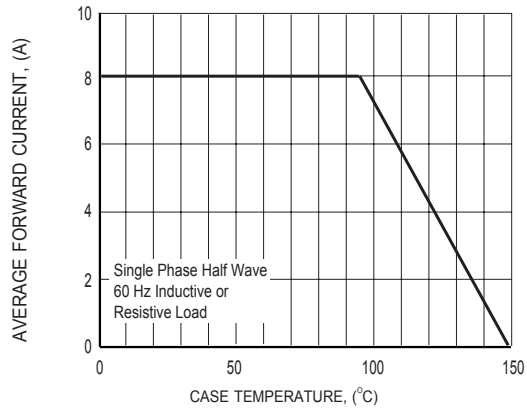
**ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)**

CHARACTERISTICS	SYMBOL	FM806C	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC	$V_F$	1.1	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	$I_R$	@ $T_A = 25^\circ\text{C}$	5
		@ $T_A = 100^\circ\text{C}$	150
			uA

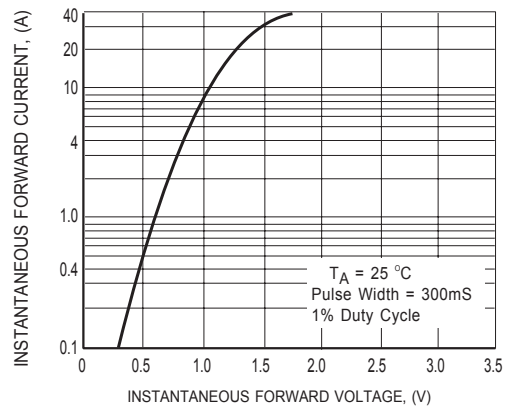
NOTE : "Fully ROHS compliant", "100% Sn plating (Pb-free)".

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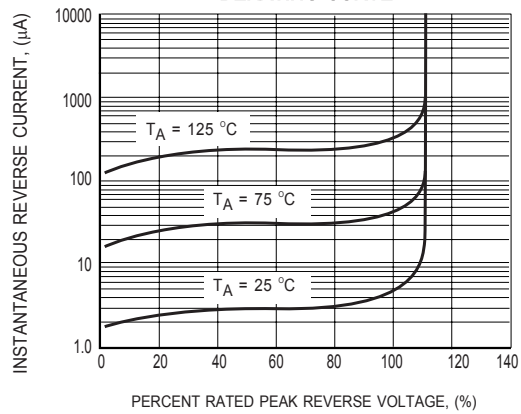
## RATING AND CHARACTERISTICS CURVES ( FM806C )



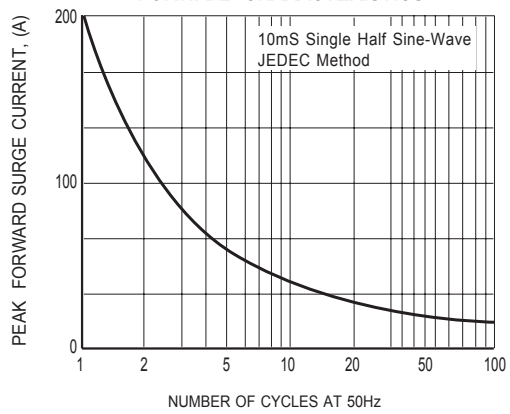
**FIG.1 TYPICAL FORWARD CURRENT  
DERATING CURVE**



**FIG.2 TYPICAL INSTANTANEOUS  
FORWARD CHARACTERISTICS**



**FIG.3 TYPICAL REVERSE CHARACTERISTICS**



**FIG.4 MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT**

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