

# SMAB36

**PRV : 60 Volts**

**I<sub>o</sub> : 3 Ampere**

## FEATURES :

- \* Low Profile Surface Mount Package.
- \* Low Power Loss, High Efficiency.
- \* For Use in Low Voltage, High Frequency inverters, Free Wheeling, and Polarity Protection Applications.
- \* **Pb / RoHS Free**

## APPLICATION

- \* Switching Power Supply.
- \* DC/DC Converter.
- \* Home Appliances, Office Equipment.
- \* Telecommunication.

## MECHANICAL DATA :

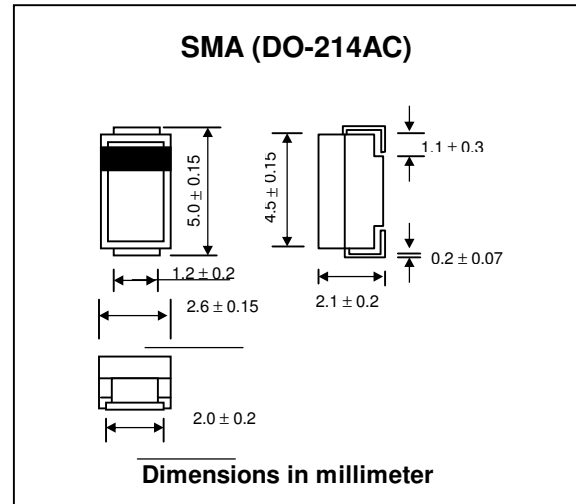
- \* Case : SMA Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Lead Formed for Surface Mount
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.067 gram

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

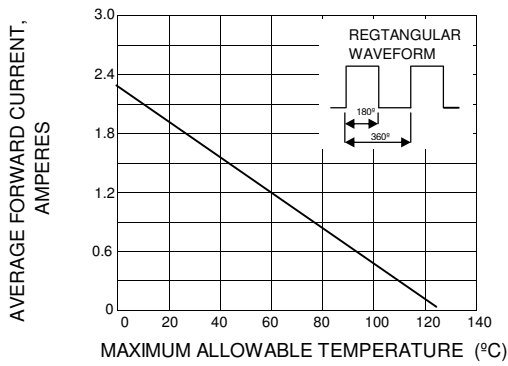
RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	60	V
Maximum Average Forward Current	I <sub>F(AV)</sub>	3.0	A
Maximum Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	I <sub>FSM</sub>	70	A
Maximum Peak Forward Voltage at I <sub>FM</sub> = 3.0 A	V <sub>FM</sub>	0.6	V
Maximum Repetitive Peak Reverse Current	I <sub>RRM</sub>	2.0	mA
Maximum Thermal Resistance, Junction to Lead	R <sub>θJL</sub>	23	°C/W
Maximum Thermal Resistance, Junction to Ambient	R <sub>θJA</sub>	108 ( on alumina substrate)	°C/W
Junction Temperature Range	T <sub>J</sub>	- 40 to + 125	°C
Storage Temperature Range	T <sub>STG</sub>	- 40 to + 125	°C

# SCHOTTKY BARRIER DIODE

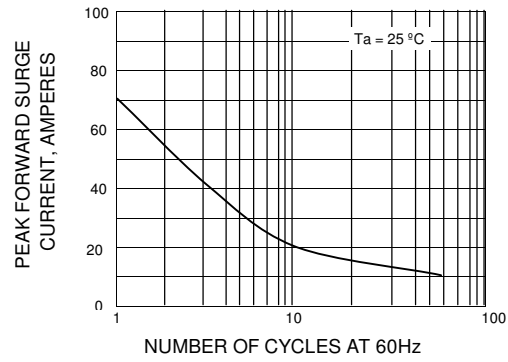


## RATING AND CHARACTERISTIC CURVES ( SMAB36 )

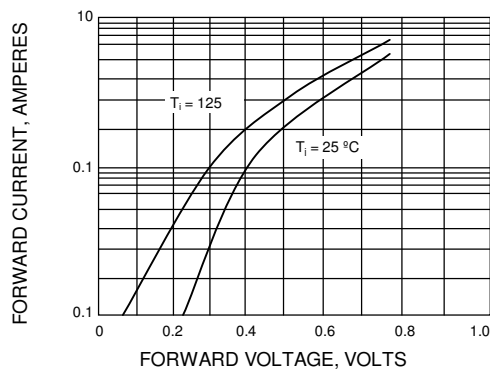
**FIG.1 - FORWARD CURRENT DERATING CURVE**



**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.3 - MAXIMUM FORWARD CHARACTERISTICS**



**FIG.4 - POWER DISSIPATION RATING**

