

SMAB36

PRV : 60 Volts

I_o : 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

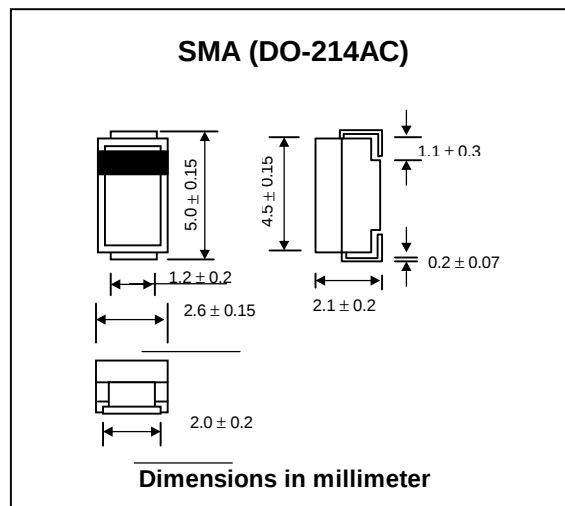
Rating at 25 °C ambient temperature unless otherwise specified.

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

SCHOTTKY BARRIER DIODE



RATING AND CHARACTERISTIC CURVES (SMAB36)

FIG.1 - FORWARD CURRENT DERATING CURVE

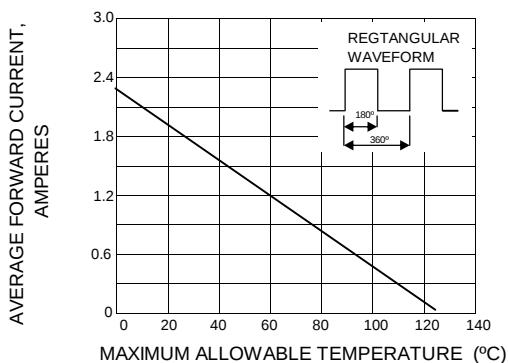


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

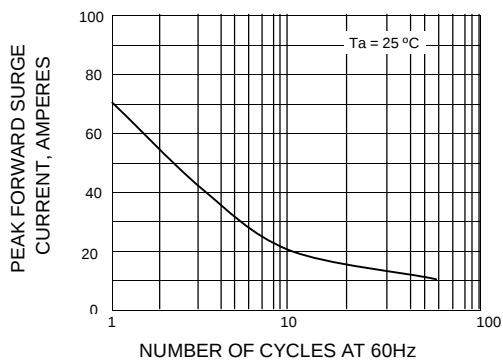


FIG.3 - MAXIMUM FORWARD CHARACTERISTICS

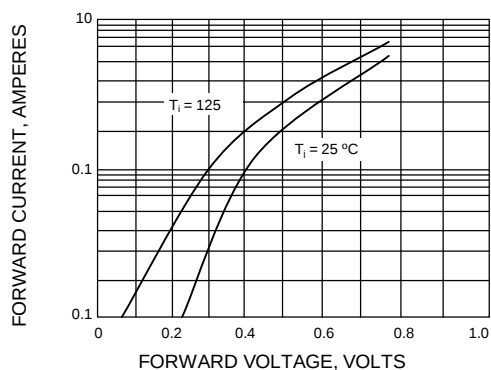


FIG.4 - POWER DISSIPATION RATING

