

### SWITCHING TYPE POWER SUPPLY APPLICATIONS.

#### 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.
- Suffix U : Qualified to AEC-Q101.  
ex) SMAB34-EL/HU

#### APPLICATION

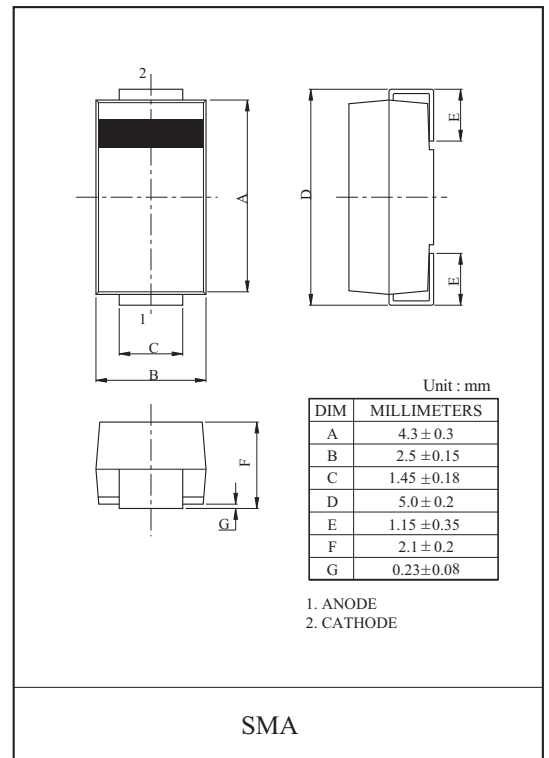
- Switching Power Supply.
- DC/DC Converter.
- Home Appliances, Office Equipment.
- Telecommunication.

#### MAXIMUM RATING (Ta=25 °C)

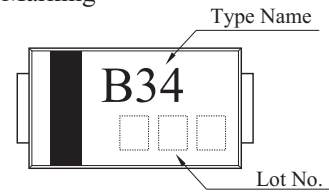
CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Average Output Rectified Current	$I_O$	3	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	$I_{FSM}$	70	A
Junction Temperature	$T_j$	-55 150	
Storage Temperature Range	$T_{stg}$	-55 150	

#### ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM}=3.0A$	-	-	0.52	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM}=\text{Rated}$	-	-	0.5	mA
Thermal Resistance	$R_{th(j-l)}$	Junction to lead	-	-	23	/W
	$R_{th(j-a)}$	Junction to ambient (on alumina substrate)	-	-	108	

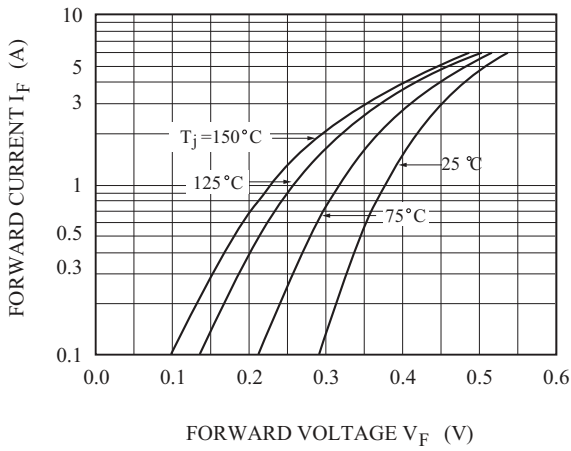


#### Marking

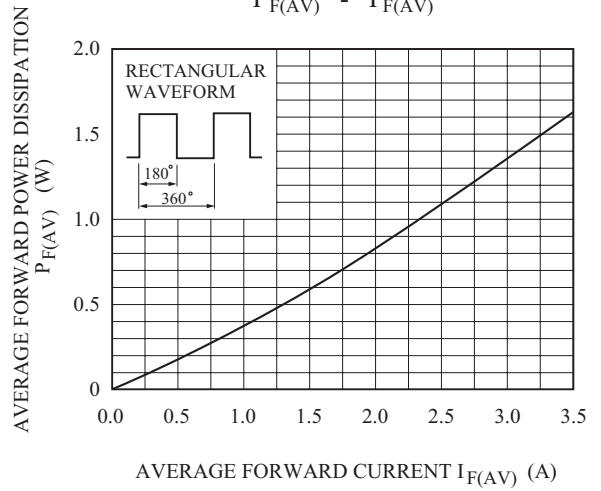


# SMAB34

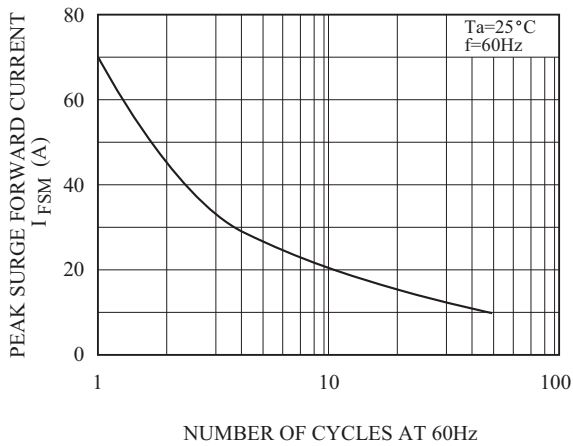
$I_F - V_F$



$P_{F(AV)} - I_{F(AV)}$



SURGE FORWARD CURRENT  
(NON - REPETITIVE)



$T_a - I_{F(AV)}$

