

SWITCHING TYPE POWER SUPPLY APPLICATIONS.

## FEATURES

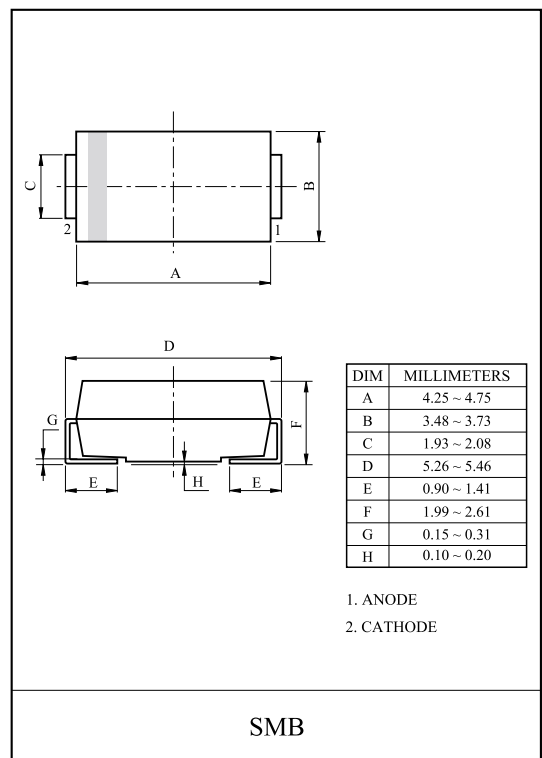
- ☐ Low Profile Surface Mount Package.
- ☐ Low Power Loss, High Efficiency.
- ☐ For Use in Low Voltage, High Frequency inverters, Free Wheeling, and Polarity Protection Applications.

## APPLICATION

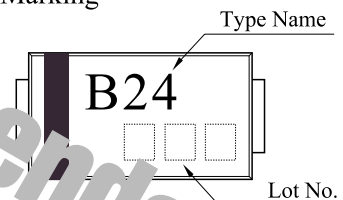
- ☐ Switching Power Supply.
- ☐ DC/DC Converter.
- ☐ Home Appliances, Office Equipment.
- ☐ Telecommunication.

## MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	V
Average Output Rectified Current	$I_A$	2	A
Peak One Cycle Surge Forward Current (Non-Repetitive 60Hz)	$I_{FSM}$	5	A
Junction Temperature	$T_j$	-40 ~ 150	℃
Storage Temperature Range	$T_{stg}$	-40 ~ 150	℃



## Marking

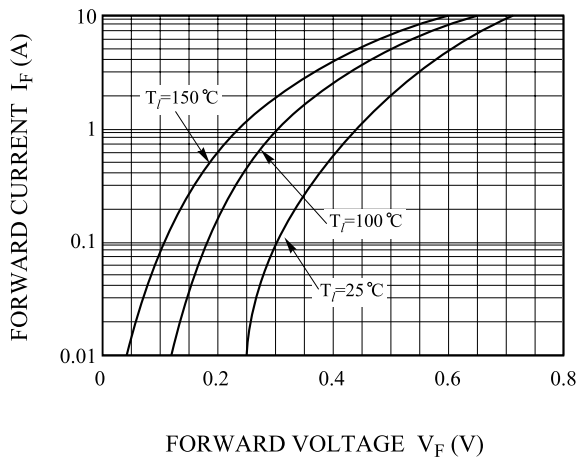


## ELECTRICAL CHARACTERISTICS (Ta=25℃)

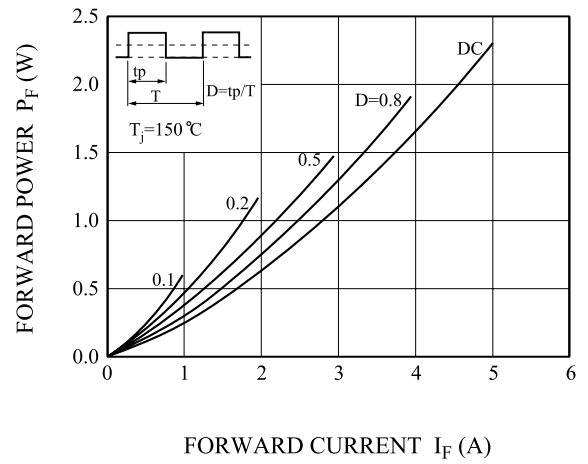
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM}=2.0A$	-	-	0.5	V
Repetitive Peak Reverse Current	$I_{RRM}$	$V_{RRM}$ =Rated, $T_j=25^{\circ}C$	-	-	0.1	mA
		$V_{RRM}$ =Rated, $T_j=100^{\circ}C$	-	-	10	mA
Total Capacitance	$C_T$	$V_R=4V$ , $f=1MHz$	-	-	200	pF
Thermal Resistance	$R_{th(j-l)}$	Junction to lead	-	-	15	℃/W

# SMBB24

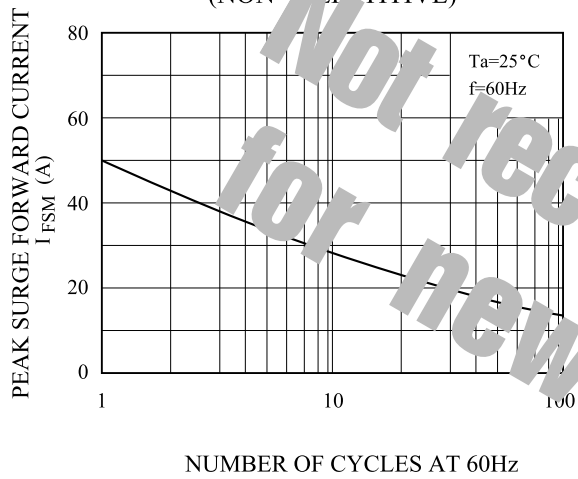
$I_F - V_F$



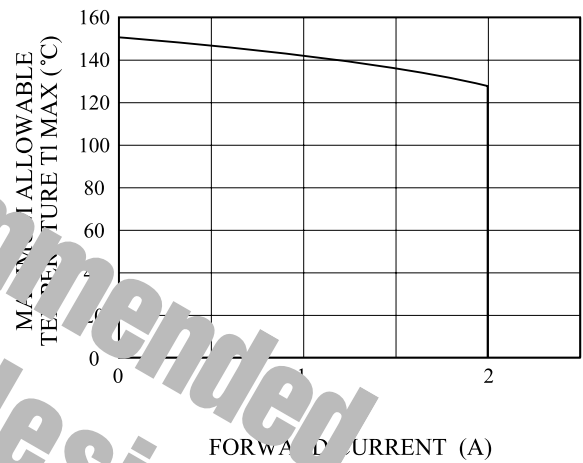
$P_F - I_F$



SURGE FORWARD CURRENT  
(NON-REPETITIVE)



$T_J - I_F$



$I_R - V_R$

