SMBB34

SCHOTTKY BARRIER TYPE DIODE

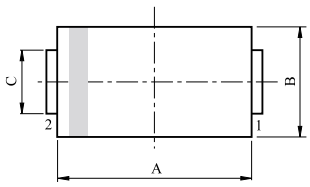
SWITCHING TYPE POWER SUPPLY APPLICATIONS.

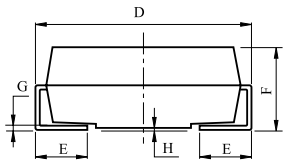
FEATURES

- 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.





DIM	MILLIMETERS
A	4.25 ~ 4.75
B	3.48 ~ 3.73
C	1.93 ~ 2.08
D	5.26 ~ 5.46
E	0.90 ~ 1.41
F	1.99 ~ 2.61
G	0.15 ~ 0.31
H	0.10 ~ 0.20

1. ANODE
2. CATHODE

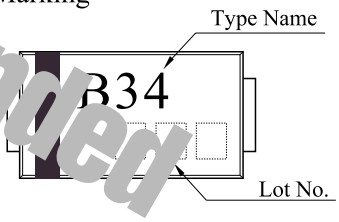
SMB

MAXIMUM RATING (Ta=25℃)

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

Not recommended for new design

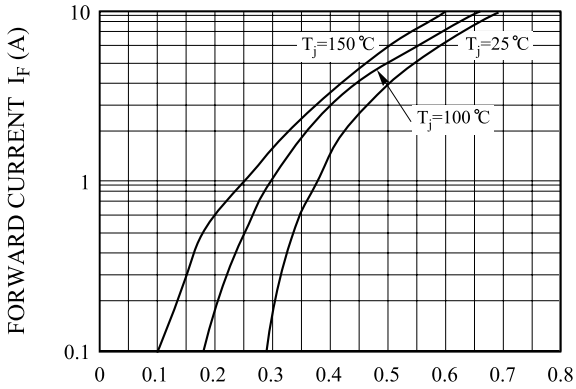
Marking



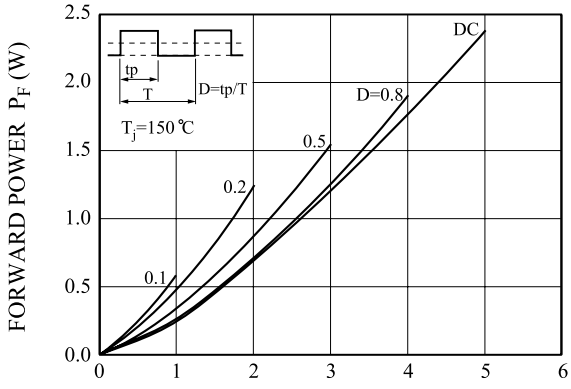
ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	I_{FM}=3.0A	-	-	0.5	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM}=Rated, Tj=25℃	-	-	0.1	mA
		V_{RRM}=Rated, Tj=100℃	-	-	10	mA
Total Capacitance	C_T	V_R=4V, f=1MHz	-	-	250	pF
Thermal Resistance	$R_{th(j-1)}$	Junction to lead	-	-	15	℃/W

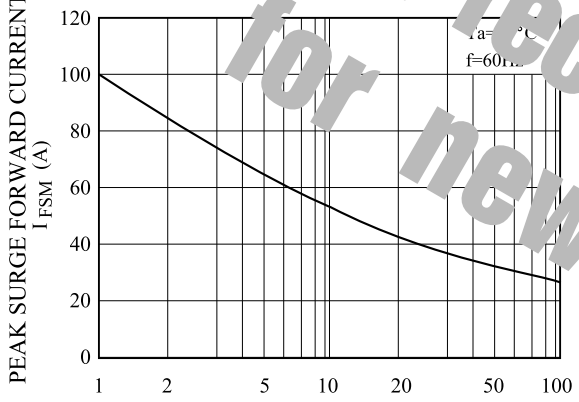
I_F - V_F



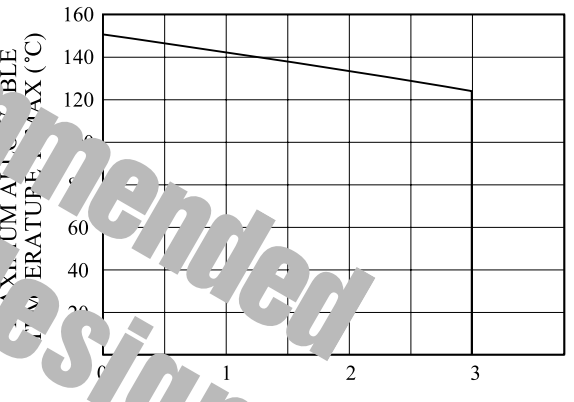
P_F - I_F



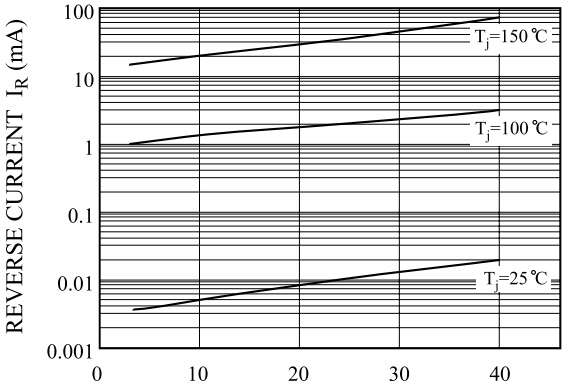
SURGE FORWARD CURRENT
(NON - REPETITIVE)



T_l - I_F



I_R - V_R



Not recommended for new design