

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER		SYMBOL	MB34	MB34A	MB35	MB36	MB38	MB39	MB310	MB315	MB320	UNITS
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage		V <sub>RMS</sub>	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See figure 1)			3						А			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I <sub>FSM</sub>	100							A		
Maximum Forward Voltage at 3A (Note 1)		V <sub>F</sub>	0.7	7	0.	74		0.8		0	.9	v
Maximum DC Reverse Current at Rated DC Blocking Voltage	T_=25°C	I <sub>R</sub>		0.05					mA			
Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>J</sub> =100°C	I <sub>R</sub>	2 1				mA					
Typical Junction Capacitance (V <sub>R</sub> =4V,1MHz)		CJ					140					pF
Typical Thermal Resistance	(Note 2) (Note 3)	R <sub>ejl</sub> R <sub>eja</sub>	15			°C/W						
Operating Junction and Storage Temperature Range		$T_{J},T_{STG}$	-55 to +150 -65 to +175						°C			

#### NOTES :

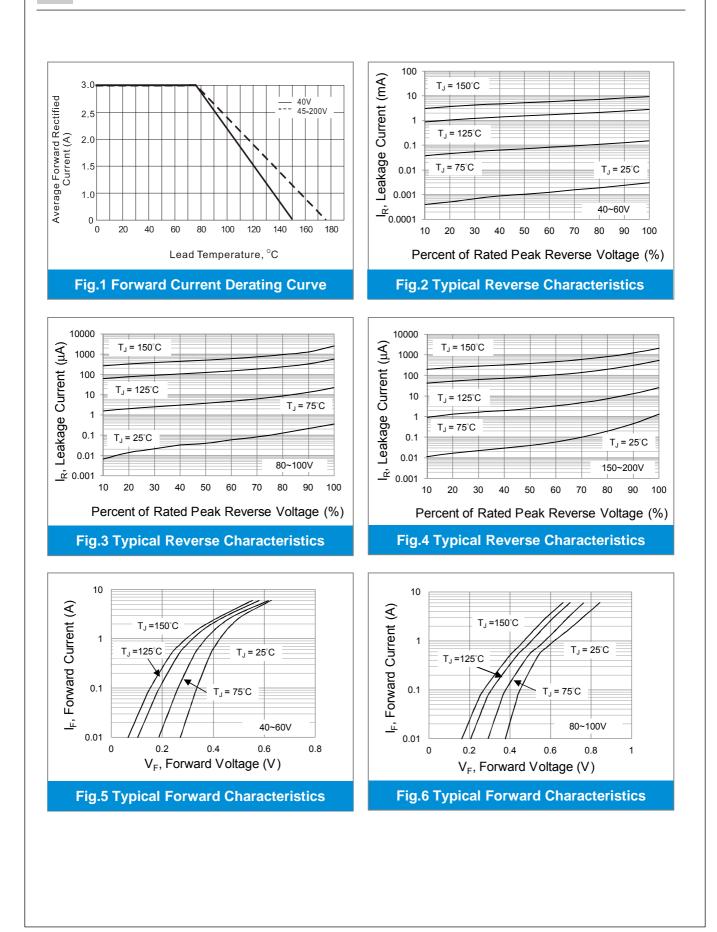
1. Pulse Test with PW =300µsec, 1% Duty Cycle.

2. Mounted on a FR4 PCB, single-sided copper, with 100cm  $^2$  copper pad area.

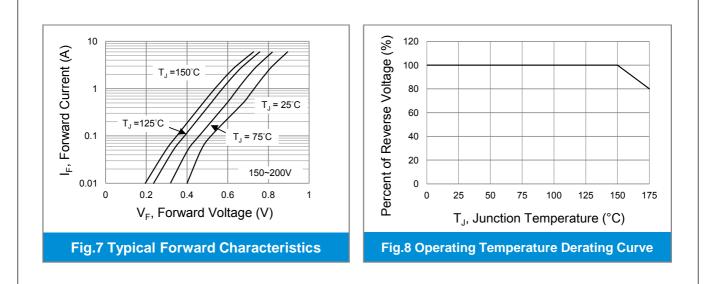
3. Mounted on a FR4 PCB, single-sided copper, mini pad.

APPROVAL SHEET ISSUE DATE : 3/19/2020











# \_\_\_\_\_

# MB34~MB320 MOUNTING PAD LAYOUT SMC/DO-214AB Unit : inch(mm) 0.390 (9.90) 0.119 0.151 (3.84) (3.03) 0.150 (3.82)

#### ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel



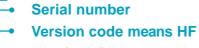
### Part No\_packing code\_Version

MB34\_R1\_00001 MB34\_R2\_00001

#### For example :

RB500V-40\_R2\_00001

Part No.



- Packing size code means 13"
- Packing type means T/R

Packing Code XX					Version Code XXXXX				
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code			
Tape and Ammunition Box (T/B)	A	N/A	0	HF 0 seri		serial number			
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number			
Bulk Packing (B/P)	В	13"	2						
Tube Packing (T/P)	т	26mm	X						
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y						
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						



# Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.