

VOLTAGE	40 to 200 Volt	CURRENT	1 Ampere		SMB/	DO-	214/	AA			Unit : i	nch(mm)	
FEATURES	5			_									
Flammabilit For surface Low power I High surge High curren For use in I and polarity Lead free in	age has Underwriters y Classification 94V-O mounted applications ir oss,high efficiency capacity t capacity ,low V <sub>F</sub> ow voltage high freque y protection application compliance with EU Ro ng compound as per IE	order to optimizency inverters, s. HS 2.0	free wheeling,		0.096(2.44) 0.083(2.13) 0.075(1.91)			185(4.70 160(4.06		0.01	2(0.305 6(0.152		
MECHANI	CALDATA			_	0.060(	1.52)			008(0.20 002(0.05				
<ul> <li>Terminals:S</li> <li>Polarity : Co</li> <li>Standard pation</li> </ul>	C DO-214AA molded pl older plated, solderable lor band denotes cathoo ckaging: 12mm tape (E 032 ounces, 0.092 gran	per MIL-STD-79 le end IA-481)	50, Method 2026			-		220(5.59 200(5.08					
		Cath	ode Anode										
	ATINGS AND ELEC	TRICAL CH		ICS									
-	ambient temperature u or inductive load.	nless otherwise	specified. Sing	e phase	, half w	ave,							
	PARAMETER		SYMBOL	MB14	MB14A	MB15	MB16	MB18	MB19	MB110	MB115	MB120	UNITS
aximum Recurrent	Peak Reverse Voltage		V <sub>RRM</sub>	40	45	50	60	80	90	100	150	200	V
aximum RMS Volt	age		V <sub>RMS</sub>	28	31.5	35	42	56	63	70	105	140	v
aximum DC Blocki	ng Voltage		V <sub>DC</sub>	40	45	50	60	80	90	100	150	200	v
aximum Average F	I <sub>F(AV)</sub>		1								A		
aximum Average r		ak Forward Surge Current :8.3ms single half sine-wave perimposed on rated load 30								-			
eak Forward Surg		alf sine-wave	I <sub>fsm</sub>					30					A

NOTES :

Typical Thermal Resistance (Note 2)

Voltage

Maximum DC Reverse Current at Rated DC Blocking Voltage

Maximum DC Reverse Current at Rated DC Blocking

Operating Junction and Storage Temperature Range

Pulse Test with PW =300µsec, 1% Duty Cycle.
 Mounted on P.C. Board with 5mm<sup>2</sup> (0.013mm thick) copper pad areas.

T\_=25°C

T\_=100°C

 $\mathsf{I}_{\mathsf{R}}$ 

 $\mathsf{I}_{\mathsf{R}}$ 

 $\mathsf{R}_{_{\theta \mathsf{JL}}}$ 

R<sub>0JA</sub>

 $\mathsf{T}_{\mathsf{J}},\mathsf{T}_{\mathsf{STG}}$ 

-55 to +150

0.05

30

95

-65 to +175

1

2

mΑ

mΑ

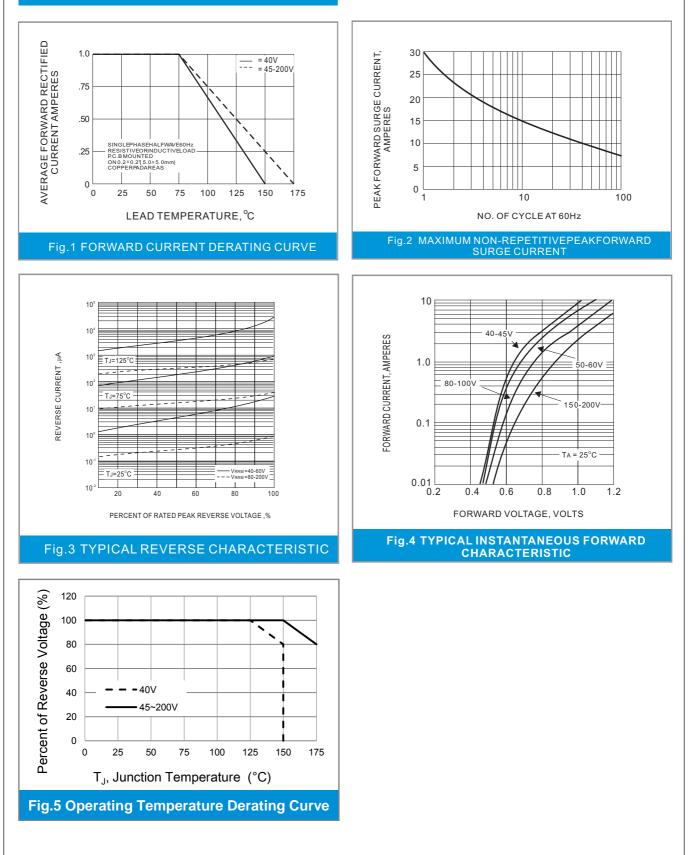
°C /

W

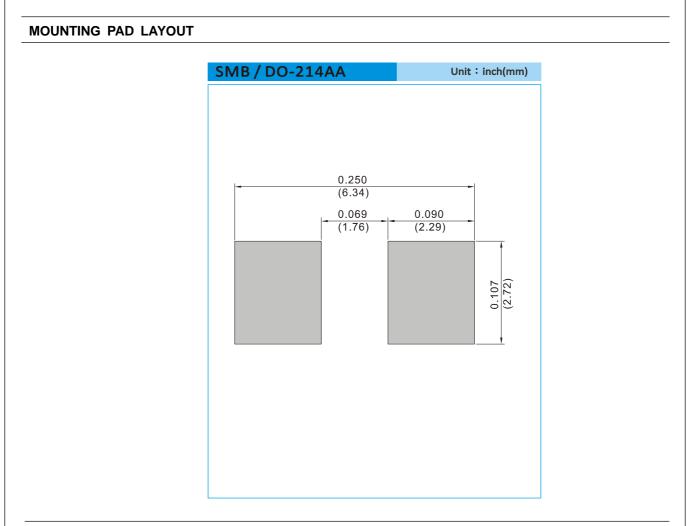
°C



#### RATING AND CHARACTERISTIC CURVES







### ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel





# Part No\_packing code\_Version MB14\_R1\_00001

MB14\_R1\_00001 MB14\_R2\_00001

### For example :

RB500V-40\_R2\_00001

Part No.

Serial number

\_

Version code means HF

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

	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)	Α	N/A	0	HF	0	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			





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Panjit: MB15\_R1\_00001 MB15\_R2\_00001