

For capacitive load, derate current by 20%.

PARAMETER		SYMBOL	FR2D	FR2G	FR2J	FR2K	FR2M	UNITS
Maximum Recurrent Peak Reverse Voltage		V <sub>RRM</sub>	200	400	600	800	1000	V
Maximum RMS Voltage		Vrms	140	280	420	560	700	V
Maximum DC Blocking Voltage		V <sub>DC</sub>	200	400	600	800	1000	V
Maximum Average Rectified Current		I <sub>F(AV)</sub>	2				А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		IFSM	50				A	
Maximum Forward Voltage at 2A		VF	1.3				V	
Maximum DC Reverse Current at Rated DC Blocking $T_{\rm J}$ =25°C Voltage $T_{\rm J}$ =125°C		I <sub>R</sub>	1 150					μA
Maximum Reverse Recovery Time (Notes 1)		trr	1	150	250	500		ns
Maximum Junction Capacitance (Notes 2)	unction Capacitance (Notes 2) CJ 40							
Typical Junction Resistance	(Notes 3) (Notes 4) (Notes 5)	R <sub>θJC</sub>	20 12.5 125			°C / W		
Operating Junction and Storage Temperature Rating		TJ , Tstg	-50 to +150				٥C	

NOTES:1. Reverse Recovery Test Conditions: IF=0.5A, IR=-1A, Irr=-0.25A

2. Measured at 1 MHz and applied V<sub>r</sub> = 4 volts.

3. 8mm<sup>2</sup> (0.013mm thick) land areas.

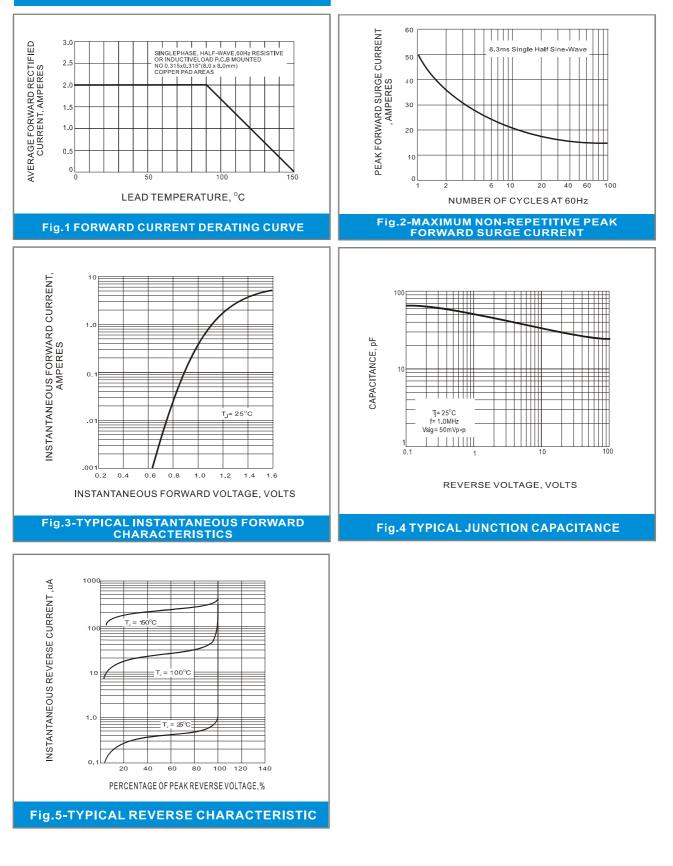
4. Mounted on a FR4 PCB with 100cm<sup>2</sup> copper pad area

5. Mounted on a FR4 PCB with min. copper pad area .



# FR2D ~ FR2M

### RATING AND CHARACTERISTIC CURVES





# MOUNTING PAD LAYOUT SMB / DO-214AA Unit : inch(mm) Unit : inch(

### ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel



# FR2D ~ FR2M

### Part No.\_packing code\_Version

FR2D\_R1\_00101 FR2D\_R2\_00101 FR2G\_R1\_00101 FR2G\_R2\_00101 FR2J\_R1\_00101 FR2J\_R2\_00101 FR2K\_R1\_00101 FR2M\_R1\_00101 FR2M\_R2\_00101

# For example :

# RB500V-40\_R2\_00001

Part No.		Serial number Version code means HF			
	<b></b>	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	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			





# FR2D ~ FR2M

# 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.