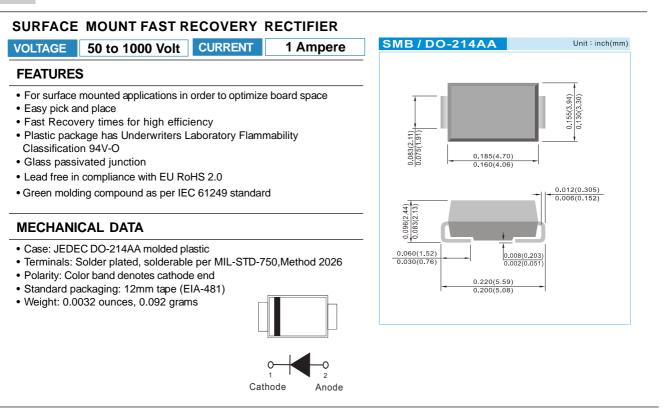




# FR1A~FR1M



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	FR1A	FR1B	FR1D	FR1G	FR1J	FR1K	FR1M	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	1000	V
Maximum RMS Voltage		35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Rectified Current	lo	1						A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	Ifsm	30						A	
Maximum Forward Voltage at 1A	Vf	1.3						V	
Maximum DC Reverse Current at Rated DC Blocking $T_J=25^{\circ}C$ Voltage $T_J=125^{\circ}C$	l r	1 150				μA			
Maximum Reverse Recovery Time (Note 1)	Trr	150		250	500		ns		
Maximum Junction Capacitance (Note 2)	CJ	12				pF			
Typical Junction Resistance (Note 3)	Røja Røjl	100 32				°C / W			
Operating Junction and Storage Temperature Rating	TJ,TS⊤G	-50 to +150				٥C			

NOTES:1. Reverse Recovery Test Conditions: I\_F=0.5A, I\_R=-1A, I\_{rr}=-0.25A

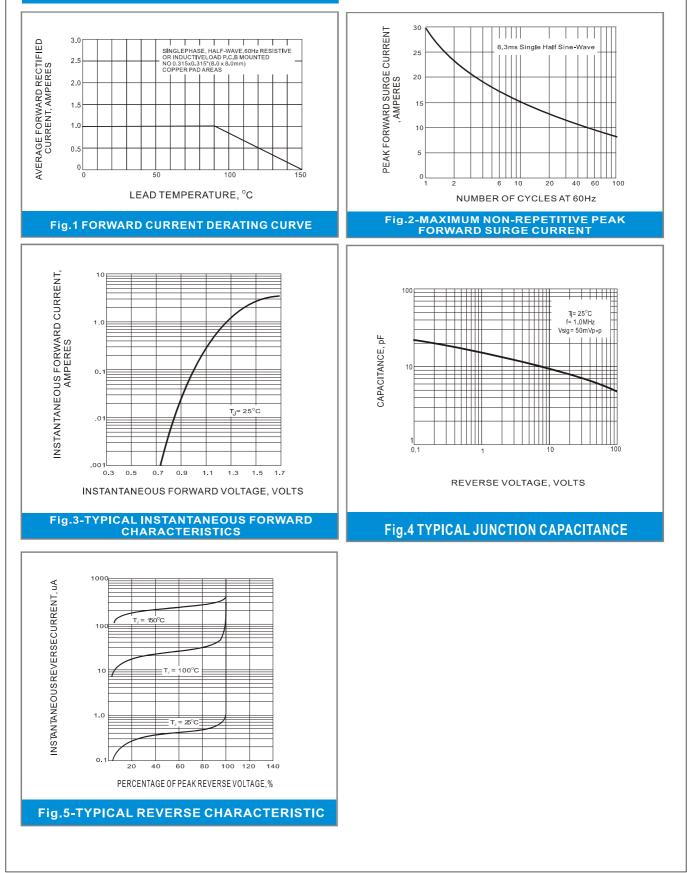
2. Measured at 1 MHz and applied  $V_r = 4$  volts.

3.  $8 mm^2$  (0.013mm thick) land areas.



# FR1A~FR1M

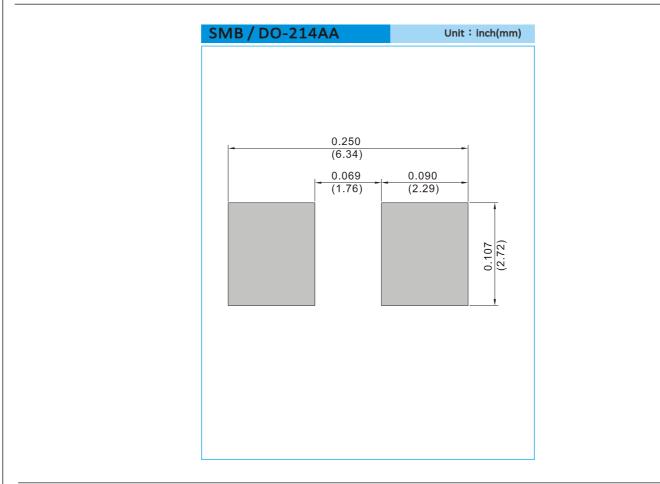






## FR1A~FR1M

#### MOUNTING PAD LAYOUT



#### **ORDER INFORMATION**

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel





### For example :

RB500V-40\_R2\_00001



- Serial number

Version code means HF

• 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					





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