

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	ER2A	ER2B	ER2C	ER2D	ER2E	ER2G	ER2J	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	v
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	105	140	210	280	420	v
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	v
Maximum Average Forward Current T <sub>L</sub> =110°C	I <sub>F(AV)</sub>	2						A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50					A		
Maximum Forward Voltage at 2A	V <sub>F</sub>	0.95 1.25			25	1.7	v		
Maximum DC Reverse Current at Rated DC T_j=25°C   Blocking Voltage T_j=100°C	I <sub>R</sub>	1 150					μA		
Maximum Reverse Recovery Time (Note 1)		35						ns	
Typical Junction Capacitance (Note 2)	C	25				pF			
Typical Thermal Resistance (Note 3)	R <sub>eul</sub>	20				°C / V			
Typical Thermal Resistance (Note 3)		15						°C / V	
Operating Junction and Storage Temperature Range		-55 to +150						°C	

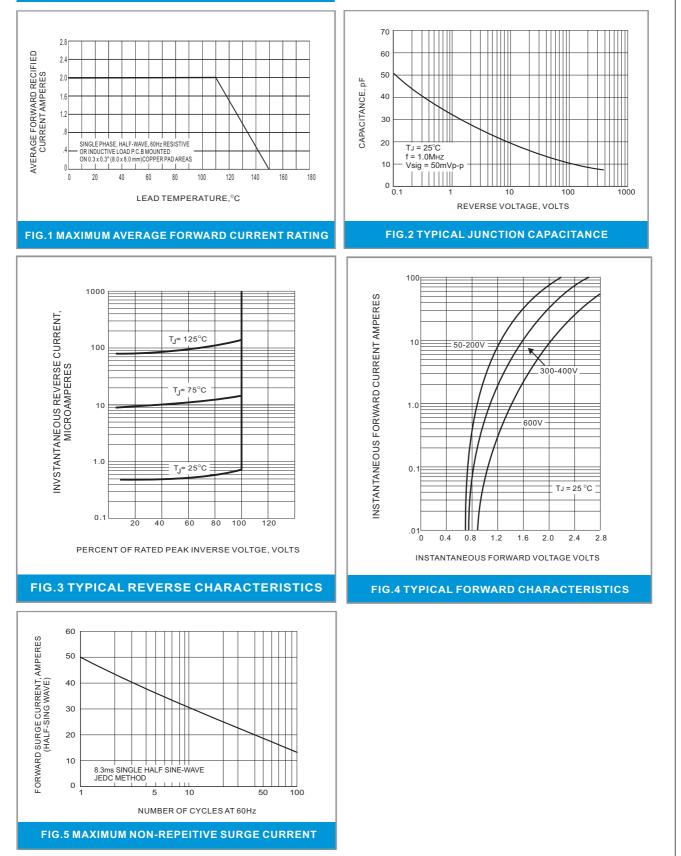
NOTES:1. Reverse Recovery Test Conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=-1A, I<sub>rr</sub>=-0.25A

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

3. Mounted on a FR4 PCB, single-sided copper, with 100cm<sup>2</sup> copper pad area.

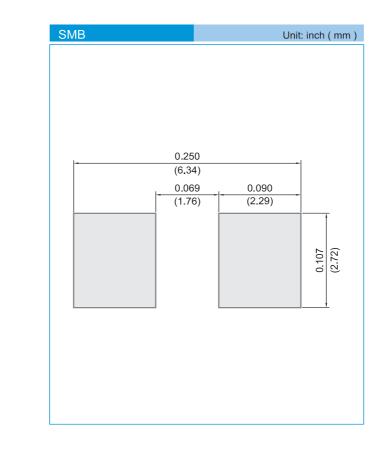








#### MOUNTING PAD LAYOUT



#### **ORDER INFORMATION**

Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel



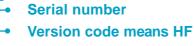
#### Part No\_packing code\_Version

ER2A\_R1\_00001 ER2A\_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	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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