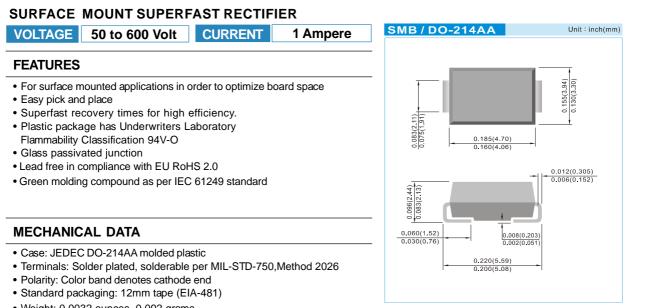


# ER1A~ER1J



### • Weight: 0.0032 ounces, 0.092 grams

#### 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%.

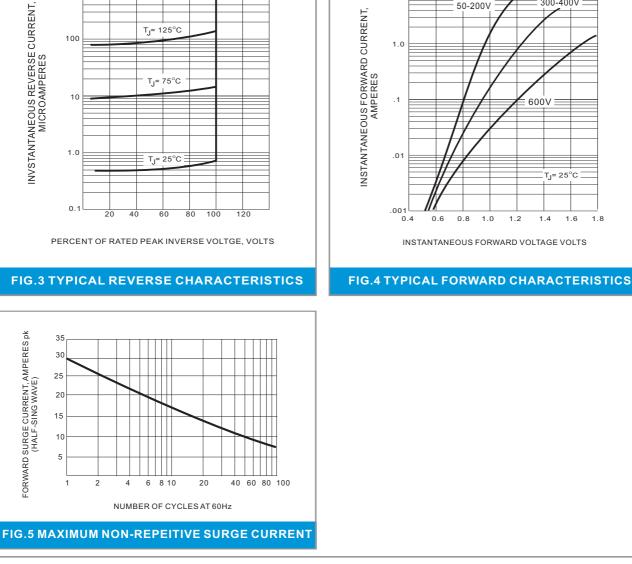
PARAMETER	SYMBOL	ER1A	ER1B	ER1C	ER1D	ER1E	ER1G	ER1J	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	300	400	600	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	300	400	600	V
Maximum Average Forward Current at T <sub>L</sub> =100°C	I <sub>F(AV)</sub>	1				A			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	30				A			
Maximum Forward Voltage at 1A		0.95 1.25 1.7			1.7	v			
Maximum DC Reverse Current at Rated DC Blocking $T_j = 25^{\circ}C$ Voltage $T_j = 100^{\circ}C$		1 150					μA		
Maximum Reverse Recovery Time (Note 1)		35					ns		
Typical Junction Capacitance (Note 2)		10					рF		
Maximum Thermal Resistance (Note 3)		34				°C / W			
Operating Junction and Storage Temperature Range	T_,T <sub>stg</sub>	-55 to +150				°C			

#### NOTES :

1. Reverse Recovery Tset Conditions :  $I_F=0.5A$ ,  $I_R=-1A$ ,  $I_{rr}=-0.25A$ 

2.Measured at 1MHz and applied reverse voltage of 4 volts.

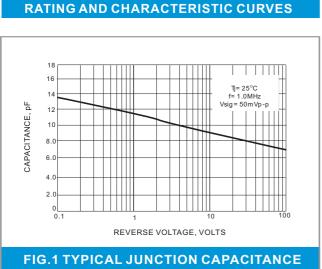
3.8mm<sup>2</sup>( 0.013mm thick ) land areas.

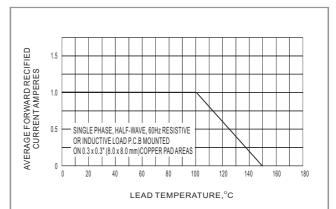




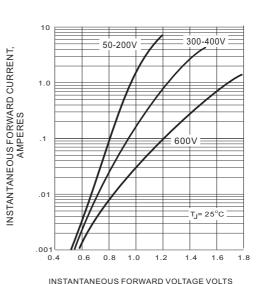
T<sub>J</sub>= 125°C

 $T_J = 75^{\circ}C$ 





#### FIG.2 MAXIMUM AVERAGE FORWARD CURRENT DERATING





1000

100

10

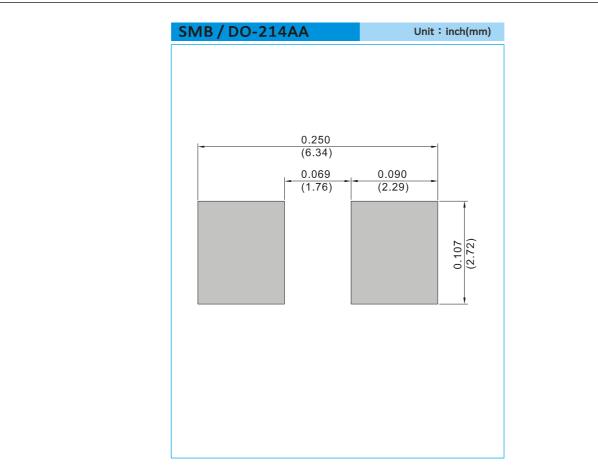






# ER1A~ER1J

### 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

ER1A\_R1\_00001 ER1A\_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

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)	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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