



SURFACE MOUNT SUPERFAST RECTIFIER

50 to 600 Volt CURRENT 1 Ampere

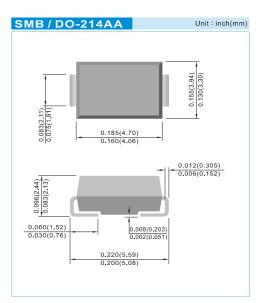
FEATURES

VOLTAGE

- · For surface mounted applications in order to optimize board space
- · Easy pick and place
- Superfast recovery times for high efficiency.
- · Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · Glass passivated junction
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0032 ounce, 0.092 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

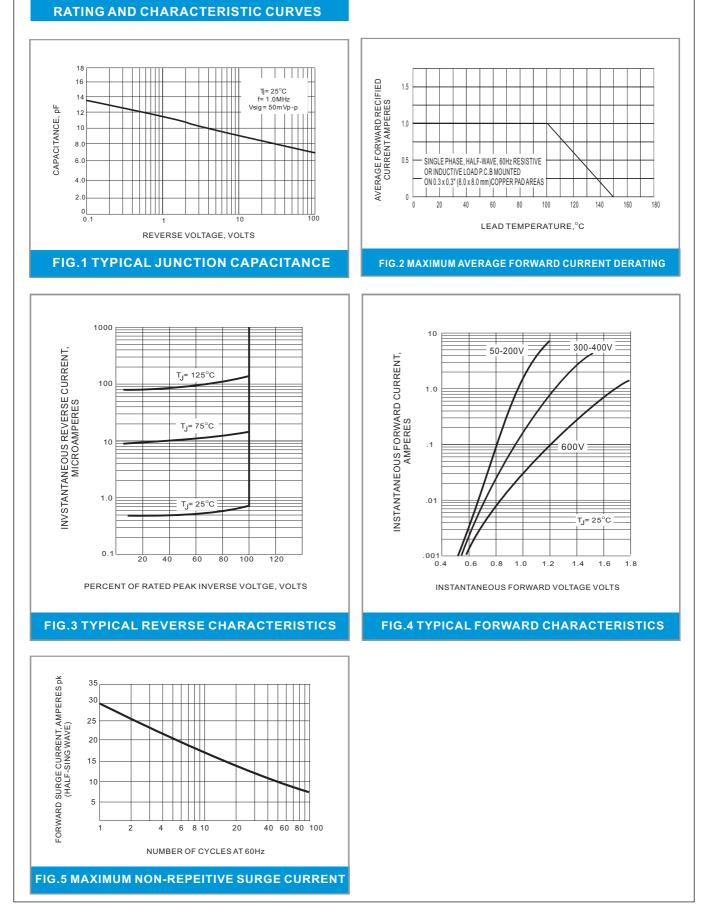
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	ER1A	ER1B	ER1C	ER1D	ER1E	ER1G	ER1J	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V
Maximum RMS Voltage	V _{rms}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Current at T _L =100°C	e Forward Current at $T_L = 100^{\circ}$ C $I_{F(AV)}$ 1					A			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30				А			
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°C Voltage T_j =100°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_J,T _{stg}	-55 to +150				°C			

NOTES :

1.Reverse Recovery Tset Conditions : IF=0.5A, IR=-1A, Irr=-0.25A 2.Measured at 1MHz and applied reverse voltage of 4 volts.

3.8mm²(0.013mm thick) land areas.





ER1A~ER1J

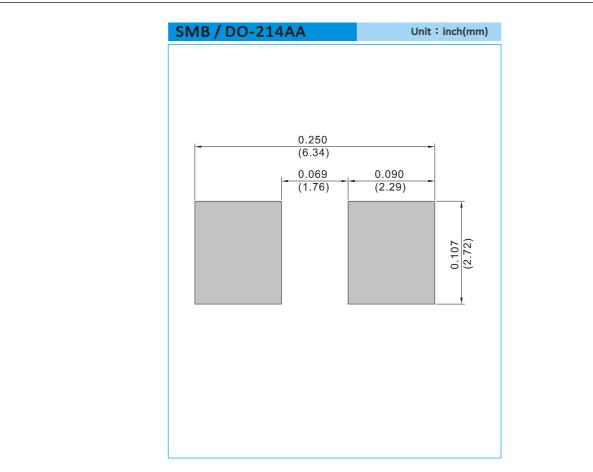


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ER1A~ER1J

MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.5K per 7" plastic Reel

с°е





Part No_packing code_Version

ER1A_R1_00001 ER1A_R2_00001

For example :

RB500V-40_R2_00001

Part No.

Serial number

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

Packing Code XX				Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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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