



#### **SURFACE MOUNT RECTIFIER**

VOLTAGE 50 to 600 Volt CURRENT 2 Ampere

#### **FEATURES**

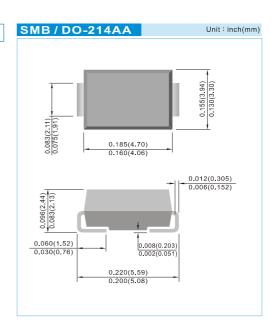
- · For surface mounted applications in order to optimize board space
- High temperature metallurgically bonded-no compression contacts as found in other diode-constructed rectifiers
- · Glass passivated junction
- · Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

### **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: 16mm tape (EIA-481)
- 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		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							Α
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50							А
Maximum Forward Voltage at 2A	V <sub>F</sub>	0.95			1.25		1.7	V	
	I <sub>R</sub>	1 150						μА	
Maximum Reverse Recovery Time (Note 1)	t <sub>rr</sub>	35					ns		
Typical Junction Capacitance (Note 2)	C <sub>J</sub>	25					pF		
Typical Thermal Resistance (Note 3)	R <sub>euL</sub>	20					°C / W		
Typical Thermal Resistance (Note 3)	R <sub>euc</sub>	15				°C/W			
Operating Junction and Storage Temperature Range	T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150					°C		

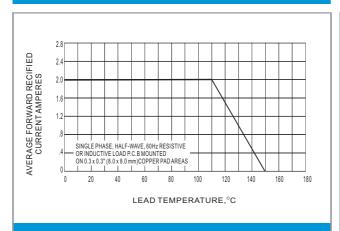
NOTES:1. Reverse Recovery Test Conditions:  $I_F$ =0.5A,  $I_R$ =-1A,  $I_{rr}$ =-0.25A

- 2. Measured at 1 MHz and applied  $V_{\Gamma}$  = 4 volts.
- 3. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.





### **RATING AND CHARACTERISTIC CURVES**



### FIG.1 MAXIMUM AVERAGE FORWARD CURRENT RATING

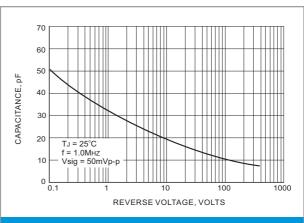


FIG.2 TYPICAL JUNCTION CAPACITANCE

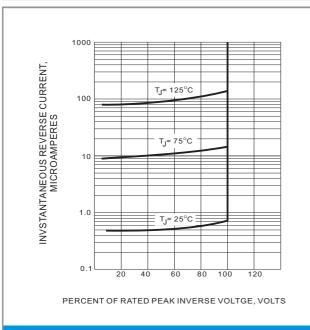


FIG.3 TYPICAL REVERSE CHARACTERISTICS

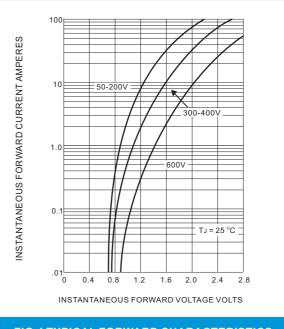
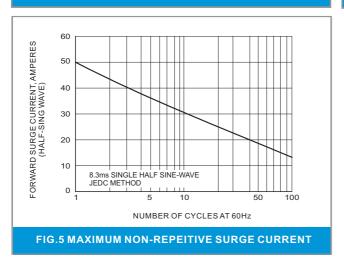


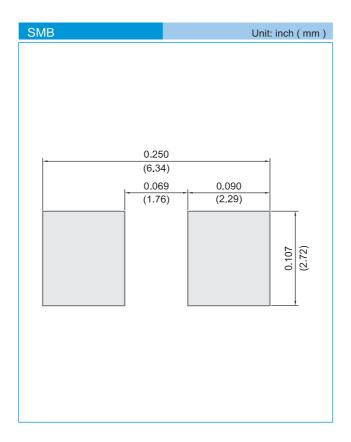
FIG.4 TYPICAL FORWARD CHARACTERISTICS







### **MOUNTING PAD LAYOUT**



### **ORDER INFORMATION**

• Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.8K per 7" plastic Reel

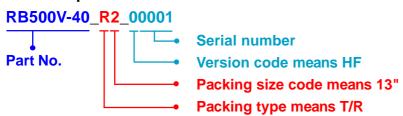




## Part No\_packing code\_Version

ER2A\_R1\_00001 ER2A\_R2\_00001

### For example:



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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