



### **SURFACE MOUNT RECTIFIER**

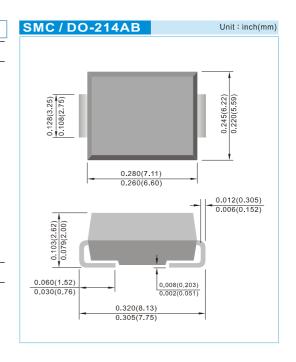
VOLTAGE 50 to 600 Volt CURRENT 3 Ampere

#### **FEATURES**

- · For surface mounted applications
- 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



- Case: JEDEC DO-214AB 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: 0.0082 ounces, 0.2325 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	ER3A	ER3B	ER3C	ER3D	ER3E	ER3G	ER3J	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		50	100	150	200	300	400	600	V
Maximum Average Forward Current at T <sub>L</sub> =75°C	I <sub>F(AV)</sub>	3					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	100						А	
laximum Forward Voltage at 3A		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		1 200					μА		
Maximum Reverse Recovery Time (Notes 1)		35					ns		
Typical Junction Capacitance (Notes 2)	C	45					pF		
Typical Thermal Resistance (Notes 3)	$R_{_{ heta JL}}$	16				°C / W			
Operating 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

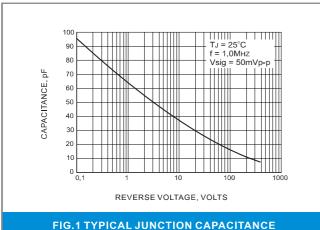
- 2. Measured at 1 MHz and applied  $V_r = 4$  volts.
- $3.8 mm^2$  ( 0.013 mm thick ) land areas.

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### **RATING AND CHARACTERISTIC CURVES**



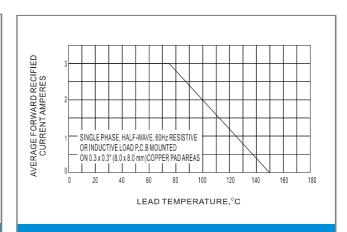


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT RATING

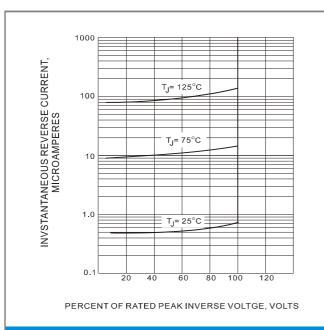


FIG.3 TYPICAL REVERSE CHARACTERISTICS

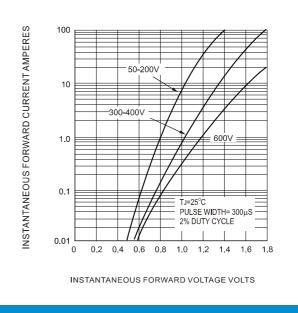
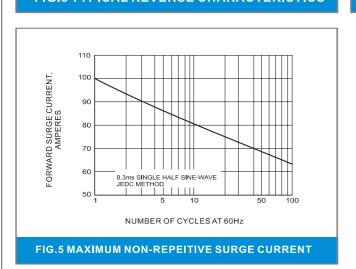


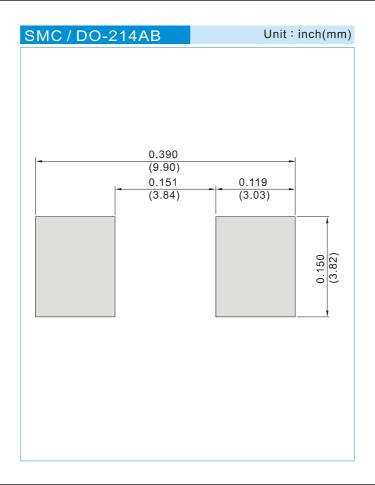
FIG.4 TYPICAL FORWARD CHARACTERISTICS







## **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

ER3A\_R1\_00001 ER3A\_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)	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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