

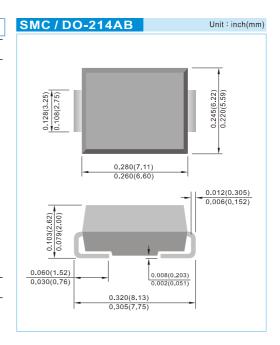


SURFACE MOUNT RECTIFIER

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
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard



MECHANICAL DATA

- · 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		ER3A-AU	ER3B-AU	ER3C-AU	ER3D-AU	ER3E-AU	ER3G-AU	ER3J-AU	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	٧
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	٧
Maximum Average Forward Current at $T_L = 75^{\circ}C$ $I_{F(AV)}$ 3					А				
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100							Α
Maximum Forward Voltage at 3A		0.95 1.25 1.7			1.7	٧			
Maximum DC Reverse Current at Rated DC Blocking $T_{_J}$ =25°C Voltage $T_{_J}$ =100°C	I _R	1 200					μΑ		
Maximum Reverse Recovery Time (Notes 1)		35							ns
Typical Junction Capacitance (Notes 2)		45							pF
Typical Thermal Resistance (Notes 3)		16						°C /	
Operating and Storage Temperature Range	T _J , T _{STG} -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_{Γ} = 4 volts.
- 3. 8mm² (0.013mm thick) land areas.





RATING AND CHARACTERISTIC CURVES

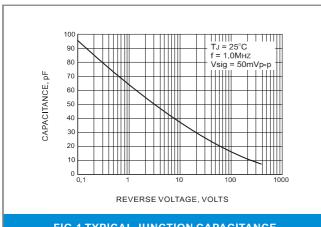


FIG.1 TYPICAL JUNCTION CAPACITANCE

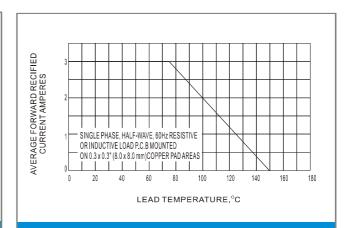


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT RATING

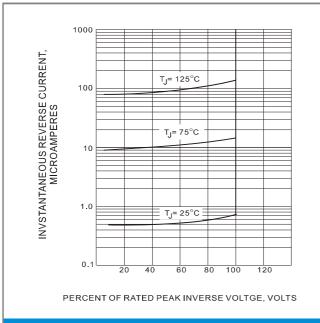


FIG.3 TYPICAL REVERSE CHARACTERISTICS

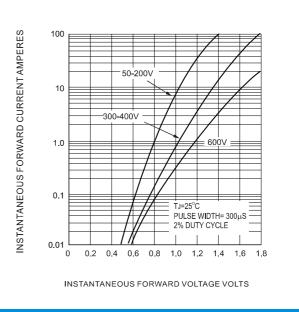
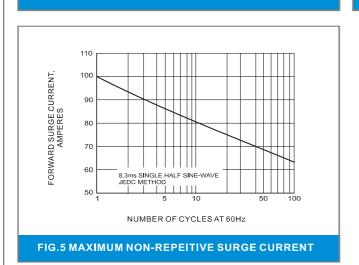


FIG.4 TYPICAL FORWARD CHARACTERISTICS

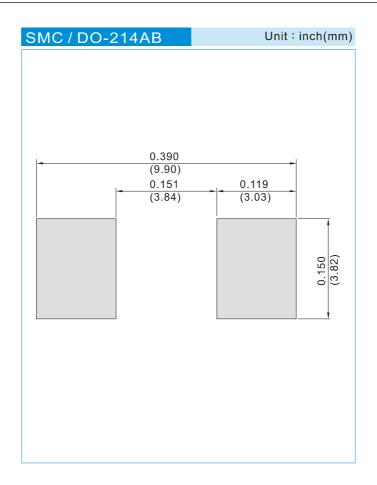


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MOUNTING PAD LAYOUT



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-AU_R1_000A1 ER3A-AU_R2_000A1

For example:



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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