



SURFACE MOUNT RECTIFIER

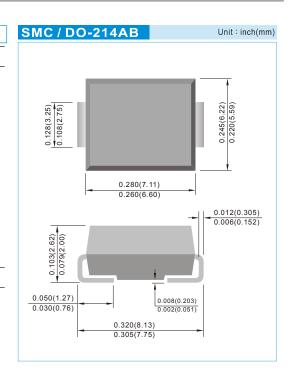
VOLTAGE 50 to 600 Volts CURRENT 3 Amperes

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
- Acqire quality system certificate : TS16949
- · AEC-Q101 qualified
- Lead free in &[{] | aaa} &^ Aj ac@lOWAU[PÙAGEFFED I EOWAsa^&aç^AA
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: JEDEC DO-214AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Indicated by cathode band
- Standard packaging: 16mm tape (EIA-481)
- Weight: 0.0082 ounce, 0.2325 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		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	V
Maximum RMS Voltage		35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	٧
Maximum Average Forward Current at T _L =75°C	I _{F(AV)}	3				Α			
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	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° $^{\circ}$	C I _R				1 200				μА
Maximum Reverse Recovery Time (Notes 1)		35						ns	
Typical Junction Capacitance (Notes 2)		45						pF	
Typical Thermal Resistance (Notes 3)	R _{eJL}	16				°C /			
Operating and Storage Temperature Range	T _J ,T _{STG}	-55 to +150				°C			

NOTES:1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, Irr=0.25A

- 2. Measured at 1 MHz and applied $V_r = 4.0$ volts.
- 3. 8.0 mm² (.013mm thick) land areas.





RATING AND CHARACTERISTIC CURVES

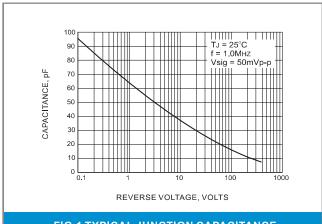


FIG.1 TYPICAL JUNCTION CAPACITANCE

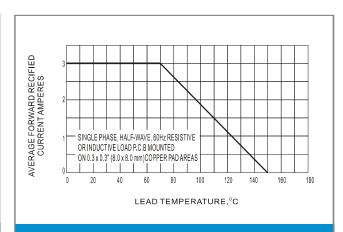


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT RATING

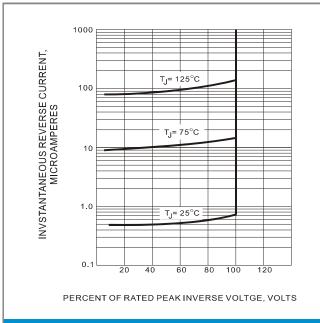


FIG.3 TYPICAL REVERSE CHARACTERISTICS

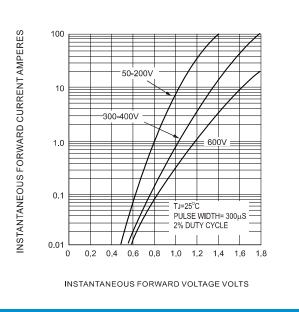
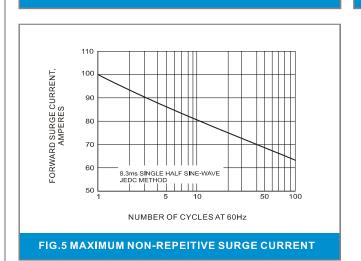


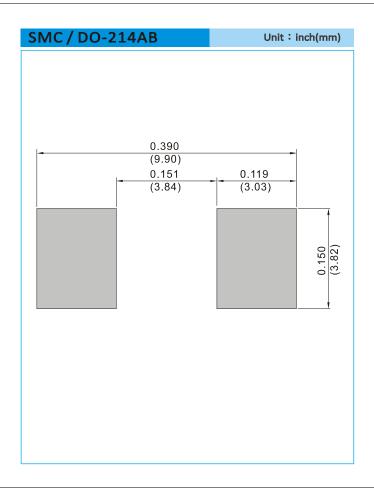
FIG.4 TYPICAL FORWARD CHARACTERISTICS







MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.5K per 7" plastic Reel

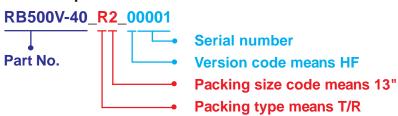




Part No_packing code_Version

ER3A-AU_R1_000A1 ER3A-AU_R1_100A1 ER3A-AU_R2_000A1 ER3A-AU_R2_100A1

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)	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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