



SURFACE MOUNT RECTIFIER

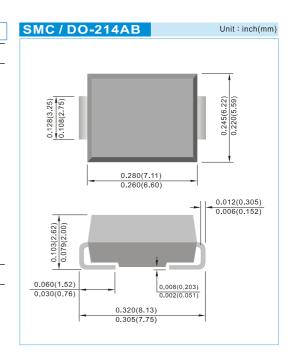
VOLTAGE 50 to 600 Volt CURRENT 3 Ampere

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 _{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 =75°C	I _{F(AV)}	3					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100						А	
Maximum Forward Voltage at 3A	V _F	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	I _R	1 200					μА		
Maximum Reverse Recovery Time (Notes 1)	t _{rr}	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 _J ,T _{STG}	-55 to +150				°C			

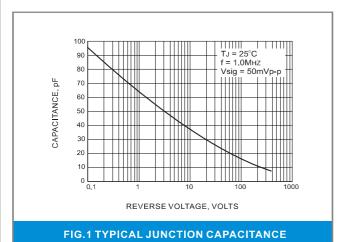
NOTES:1. Reverse Recovery Test Conditions: I_F =0.5A, I_R =-1A, I_{rr} =-0.25A

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





RATING AND CHARACTERISTIC CURVES



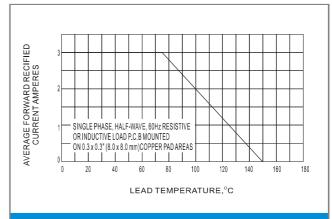
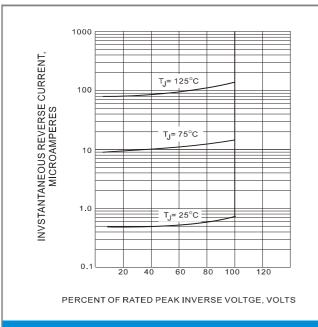


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT RATING



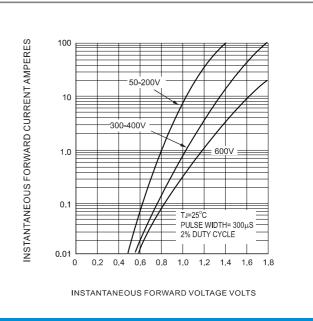
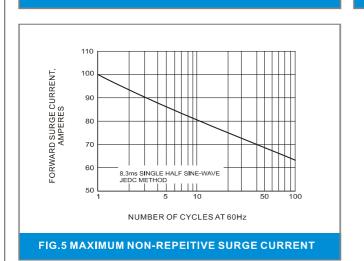


FIG.3 TYPICAL REVERSE CHARACTERISTICS

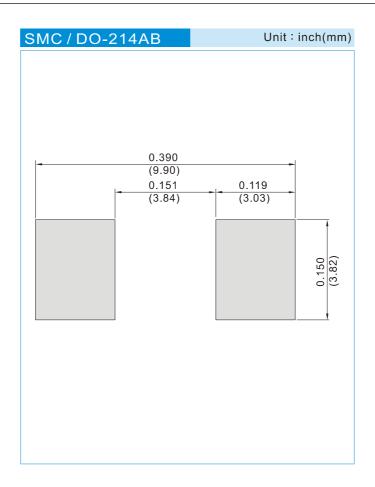
FIG.4 TYPICAL FORWARD CHARACTERISTICS







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 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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