



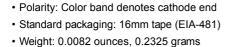
SURFACE MOUNT RECTIFIER

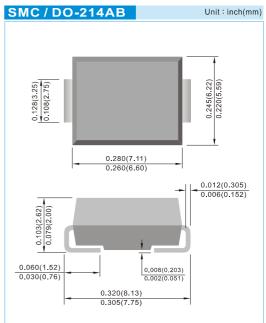
VOLTAGE 50 to 600 Volt CURRENT 3 Ampere

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 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA • Case: JEDEC DO-214AB molded plæstic • Terminals: Solder plated, solderable per MIL-STD-750, Method 2026





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		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.			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)	C¹	45					pF		
Typical Thermal Resistance (Notes 3)	R _{eJL}	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

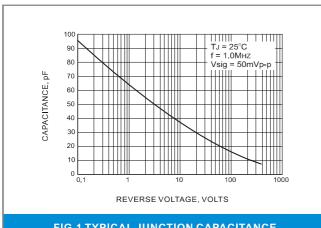


FIG.1 TYPICAL JUNCTION CAPACITANCE

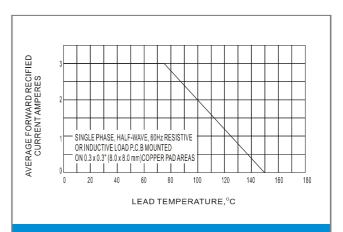


FIG.2 MAXIMUM AVERAGE FORWARD CURRENT RATING

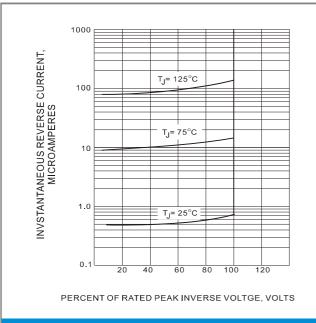


FIG.3 TYPICAL REVERSE CHARACTERISTICS

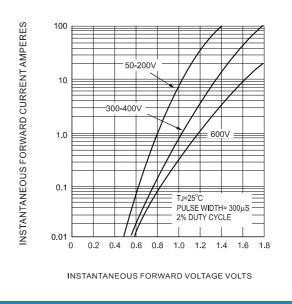
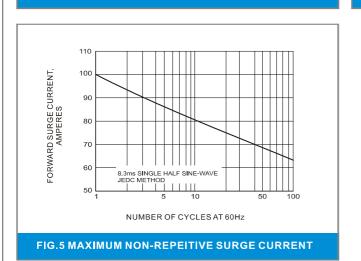


FIG.4 TYPICAL FORWARD CHARACTERISTICS

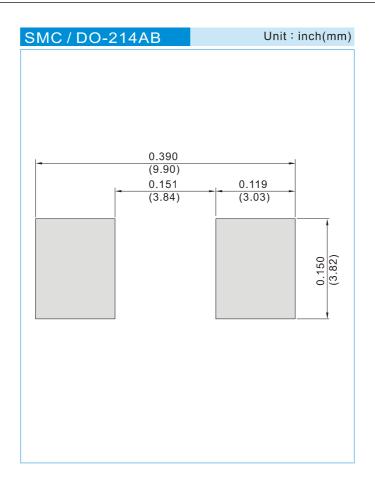


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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 3K per 13" plastic Reel

T/R - 0.5K 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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