



SURFACE MOUNT RECTIFIER

VOLTAGE 50 to 600 Volt CURRENT 2 Ampere

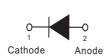
FEATURES

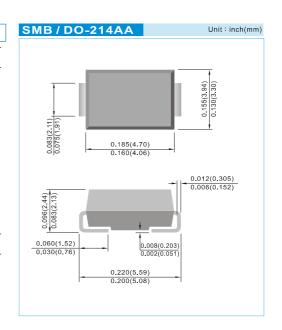
- · For surface mounted applications in order to optimize board space
- High temperature metallurgically bonded-no compression contacts as found in other diode-constructed rectifiers
- · Glass passivated junction
- · Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Lead free in compliance with EU RoHS 2.0
- · Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: JEDEC DO-214AA 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: 0.0032 ounces, 0.092 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	ER2A	ER2B	ER2C	ER2D	ER2E	ER2G	ER2J	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 T _L =110°C	I _{F(AV)}	2							А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50							А
Maximum Forward Voltage at 2A	V _F	0.95 1.25 1.7				1.7	V		
Maximum DC Reverse Current at Rated DC T_J =25°C Blocking Voltage T_J =100°C	I _R	1 150							μА
Maximum Reverse Recovery Time (Note 1)	t _{rr}	35					ns		
Typical Junction Capacitance (Note 2)	C _J	25					pF		
Typical Thermal Resistance (Note 3)	R _{euL}	20						°C / W	
Typical Thermal Resistance (Note 3)	R _{euc}	15				°C / W			
Operating Junction 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. Mounted on a FR4 PCB, single-sided copper, with $100 \mathrm{cm}^2$ copper pad area.





RATING AND CHARACTERISTIC CURVES

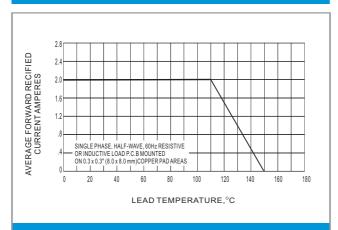


FIG.1 MAXIMUM AVERAGE FORWARD CURRENT RATING

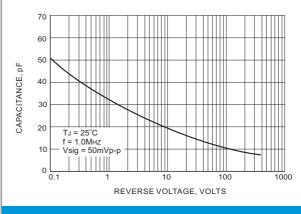


FIG.2 TYPICAL JUNCTION CAPACITANCE

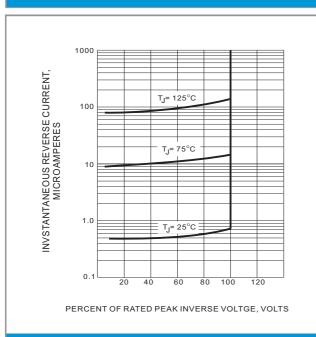


FIG.3 TYPICAL REVERSE CHARACTERISTICS

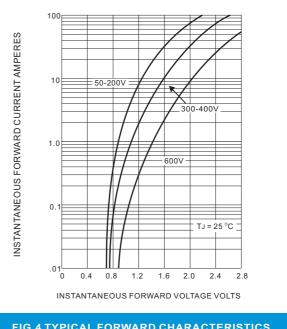
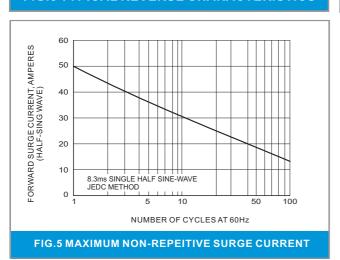


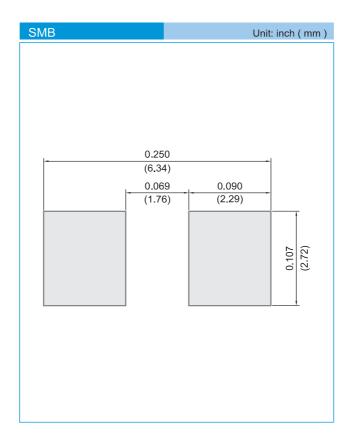
FIG.4 TYPICAL FORWARD CHARACTERISTICS







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

ER2A_R1_00001 ER2A_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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1N1186A 1N1186R 1N1187 1N1187 1N1188 1N1188A 1N1188A 1N1188R 1N1189 1N1190 1N1190AR 1N1190R 1N1198A

1N1199A 1N1200A 1N1202A 1N1202A 1N1202AR 1N1204AR 1N1205A 1N1206A 1N1206AR 1N2129A