



ER2A THRU ER2J

SURFACE MOUNT FAST SWITCHING RECTIFIER

Voltage Range 50 to 600 Volts

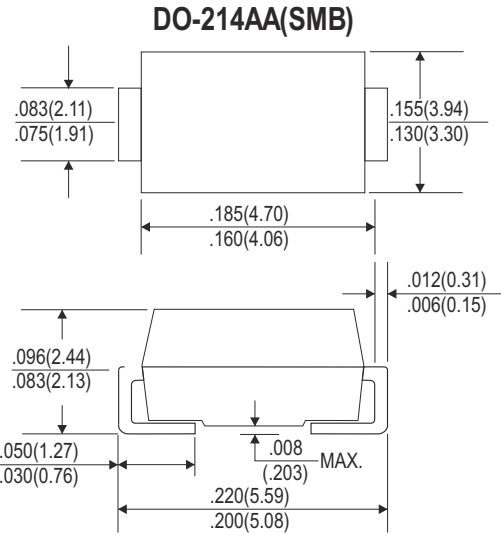
Current 2.0 Amperes

Features

- * Low forward voltage drop
- * Plastic material used carries Underwriters Laboratory Classification 94V-O
- * For surface mounted application
- * Glass passivated junction chip
- * Built-in strain relief
- * Superfast recovery times for high efficiency
- * High temperature soldering: 250°C / 10 seconds at terminals

Mechanical Data

- * Case: Molded plastic
- * Terminals: Solder plated
- * Polarity: Indicated by cathode band
- * Packing: 12mm tape
- * Weight: 0.093 gram



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating 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%.

Type Number	ER2A	ER2B	ER2C	ER2D	ER2E	ER2G	ER2J	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	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current @ T _L =110°C	2.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	50.0							A
Maximum Instantaneous Forward Voltage @ 2.0A	0.95				1.25	1.7		V
Maximum DC Reverse Current @ T _A =25°C	5.0							uA
At Rated DC Blocking Voltage @ T _A =100°C	150							
Maximum Reverse Recovery Time (Note 1)	35.0							nS
Typical Junction Capacitance (Note 2)	25.0							pF
Maximum Thermal Resistance (Note 3)	20.0							°C/W
Operating and Storage Temperature Range	-50 to +150							°C

Notes:

1. Reverse Recovery Test Conditions: $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$
2. Measured at 1 MHz and Applied VR= 4.0 Volts.
3. 8.0mm² (.013mm thick) land areas

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RATING AND CHARACTERISTIC CURVES (ER2A THRU ER2J)

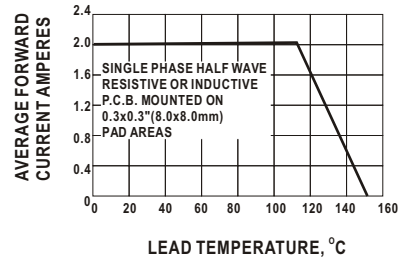
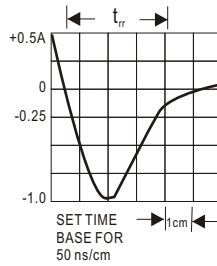
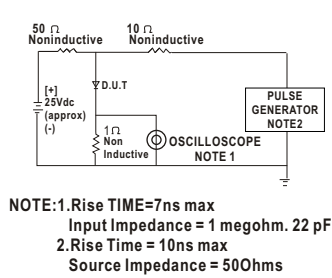


Fig. 1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

FIG. 2 - MAXIMUM AVERAGE FORWARD CURRENT RATING

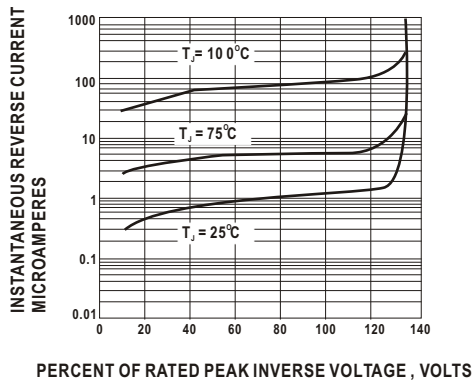


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

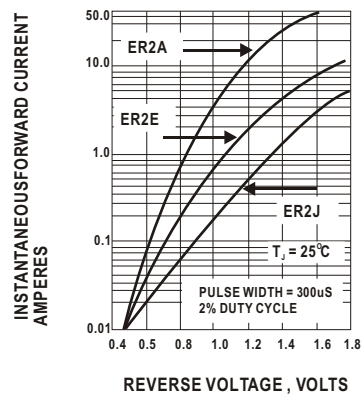


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

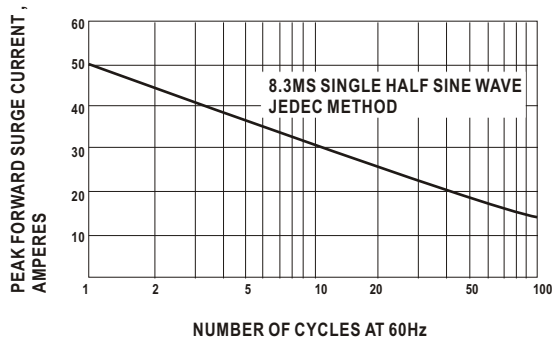


FIG. 5 - MAXIMUM NON - REPETITIVE PEAK FORWARD SURGE CURRENT

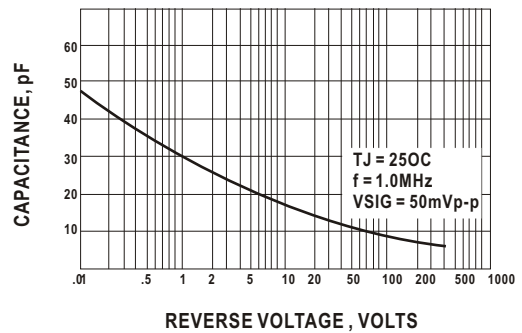


FIG. 6 - TYPICAL JUNCTION CAPACITANCE