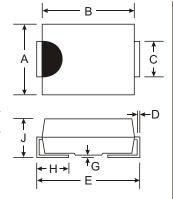


ES2A/A - ES2D/A

2.0A SURFACE MOUNT SUPER-FAST RECTIFIER

Features

- Glass Passivated Die Construction
- Super-Fast Recovery Time For High Efficiency
- Low Forward Voltage Drop and High Current Capability
- Surge Overload Rating to 50A Peak
- Ideally Suited for Automated Assembly
- Plastic Material: UL Flammability Classification Rating 94V-0



	SI	/IA	SMB				
Dim	Min	Max	Min	Max			
Α	2.29	2.92	3.30	3.94			
В	4.00	4.60	4.06	4.57			
С	1.27	1.63	1.96	2.21			
D	0.15	0.31	0.15	0.31			
E	4.80	5.59	5.00	5.59			
G	0.10	0.20	0.10	0.20			
Н	0.76	1.52	0.76	1.52			
J	2.01	2.62	2.00	2.62			
All Dimensions in mm							

Mechanical Data

Case: Molded Plastic

 Terminals: Solder Plated Terminal -Solderable per MIL-STD-202, Method 208

- Polarity: Cathode Band or Cathode Notch
- SMA Weight: 0.064 grams (approx.)
- SMB Weight: 0.093 grams (approx.)
- Mounting Position: AnyMarking: Type Number

AA, BA, CA, DA Suffix Designates SMA Package A, B, C, D, Suffix Designates SMB Package

Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		ool ES2A/A	ES2B/A	ES2C/A	ES2D/A	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		м 50	100	150	200	V
RMS Reverse Voltage	V _{R(RN}	1S) 35	70	105	140	V
Average Rectified Output Current @ T _T = 110°C			2.0			
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rate (JEDEC Method)	d Load I _{FSN}	1	50			
Forward Voltage @ I _F = 2.0A		ı	0.92			
Peak Reverse Current @ $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A = 125^{\circ}C$			5.0 350			
Reverse Recovery Time (Note 3)			25			
Typical Junction Capacitance (Note 2)			25			
Typical Thermal Resistance, Junction to Terminal (Note 1)		г	20			
Operating and Storage Temperature Range		т	-55 to +150			°C

Notes:

- 1. Unit mounted on PC board with 5.0 mm² (0.013 mm thick) copper pads as heat sink.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$. See Figure 5.



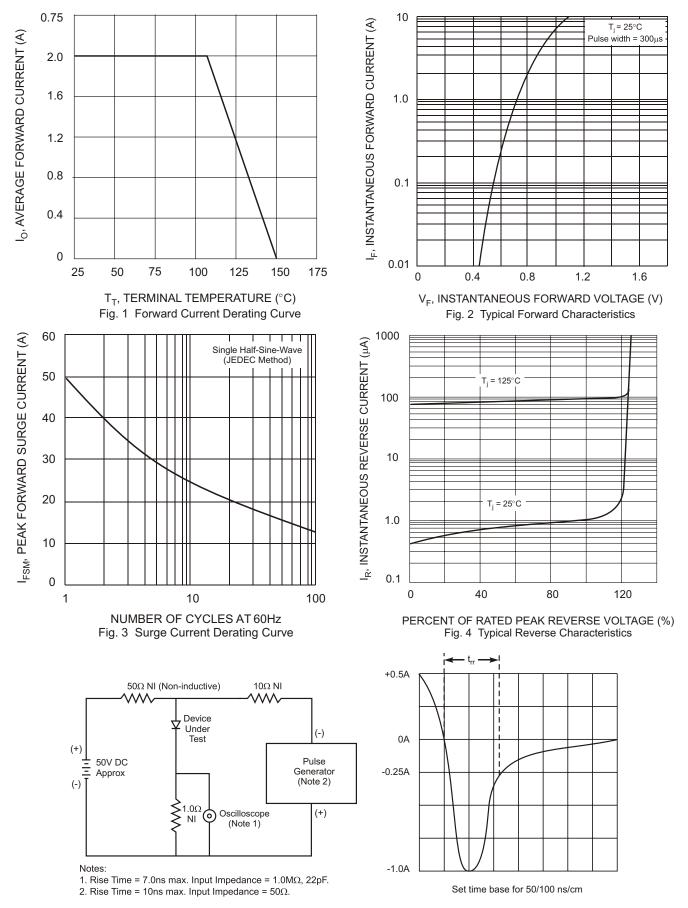


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit