



# ES2A Thru ES2D

## 2 AMP SURFACE MOUNT GLASS SUPER FAST RECOVERY RECTIFIER

### FEATURES

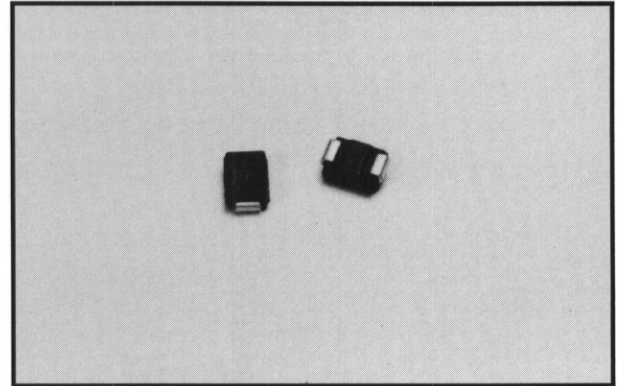
- For surface mount applications
- Super fast recovery time
- Reliable low cost construction utilizing molded plastic technique
- Low forward voltage drop
- UL recognized 94V-O plastic material
- High temperature soldering: 250 °C/10 seconds at terminal
- Glass passivated junction

### Mechanical Data

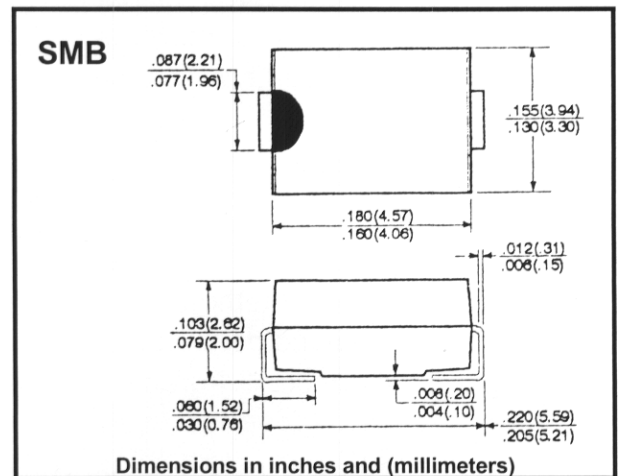
- Case: Molded plastic
- Polarity: Indicated on cathode
- Weight: 0.003 ounces, 0.093 grams

### Maximum Ratings & Characteristics

- Ratings at 25° C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load, derate current by 20%



### Outline Drawing



		ES2A	ES2B	ES2C	ES2D	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	150	200	V
Maximum RMS Input Voltage	V <sub>RMS</sub>	35	70	105	140	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	150	200	V
Maximum Average Forward Output Current .375" 9.5mm lead length @ T <sub>L</sub> = 110°C	I <sub>(AV)</sub>	2.0				A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I <sub>FSM</sub>	50				A
Maximum Forward Voltage Drop At 2.0A	V <sub>F</sub>	0.9				V
Maximum Reverse Current At Rated DC Blocking Voltage per Bridge Element @ T <sub>A</sub> = 25°C	I <sub>R</sub>	5				μA
Maximum Reverse Recovery Time* (See Note) @ T <sub>A</sub> = 100°C	t <sub>rr</sub>	350				μA
Typical Junction Capacitance** (See Note)	C <sub>J</sub>	25				nS
Maximum Thermal Resistance*** (See Note)	R <sub>(THJL)</sub>	20				°C/W
Operating Temperature Range	T <sub>J</sub>	-65 to +150				°C
Storage Temperature Range	T <sub>STG</sub>	-65 to +150				°C

Note: \*Test conditions: I<sub>F</sub>=0.5A, I<sub>R</sub> = 1.0A, I<sub>rr</sub> = 0.25A

\*\*Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

\*\*\*Thermal resistance junction to lead measured on PC board 5.0mm<sup>2</sup> X (0.013mm thick)