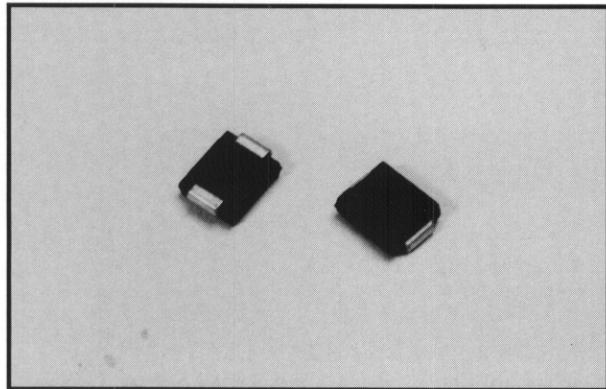




3 AMP SURFACE MOUNT GLASS SUPER FAST RECOVERY RECTIFIER

■ FEATURES

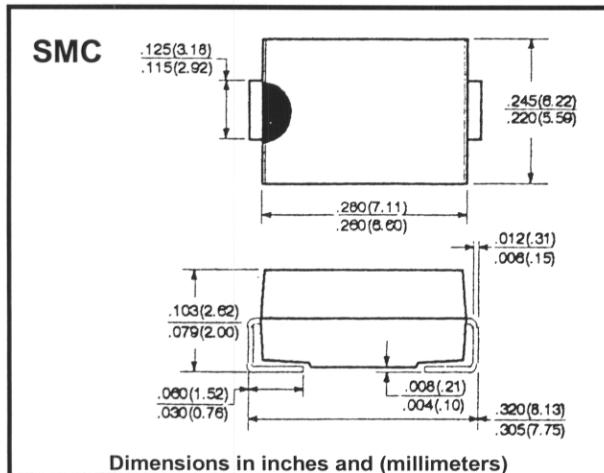
- Super fast recovery time
- For surface mount applications
- Reliable low cost construction utilizing molded plastic technique
- Low forward voltage drop
- UL recognized 94V-O plastic material
- High temperature soldering: 250 °C/10 seconds at terminals
- Glass passivated junction



■ Mechanical Data

- Case: Molded plastic
- Polarity: Indicated on cathode
- Weight: 0.007 ounces, 0.21 grams

■ Outline Drawing



Dimensions in inches and (millimeters)

■ 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%

		ES3A	ES3B	ES3C	ES3D	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	V
Maximum RMS Input Voltage	V _{RMS}	35	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	V
Maximum Average Forward Output Current .375" 9.5mm lead length @ T _L = 100°C	I _(AV)			3.0		A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I _{FSM}			100		A
Maximum Forward Voltage Drop At 3.0A	V _F			0.9		V
Maximum Reverse Current At Rated @ T _A = 25°C	I _R			10		μA
DC Blocking Voltage per Bridge Element @ T _A = 100°C				500		μA
Maximum Reverse Recovery Time* (See Note)	t _{rr}			25		nS
Typical Junction Capacitance** (See Note)	C _J			45		pF
Typical Thermal Resistance*** (See Note)	R _(THJL)			10		°C/W
Typical Thermal Resistance*** (See Note)	R _(THJA)			50		°C/W
Operating Temperature Range	T _J		-65 to +150			°C
Storage Temperature Range	T _{STG}		-65 to +150			°C

Note: *Test conditions: IF=0.5A, IR = 1.0A, Irr = 0.25A

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

***Thermal resistance junction lead/ambient measured on PC board 8.0mm² X (0.013mm thick)