

1 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

DC Blocking Voltage per Bridge Element

Typical Junction Capacitance** (See Note)

Typical Thermal Resistance***(See Note)

Operating Temperature Range

Storage Temperature Range

Maximum Reverse Recovery Time* (See Note)

• Weight: 0.021 ounces, 0.064 grams

 Maximum Ratings & 0 Ratings at 25° C ambient temperate Single phase, half wave, 60Hz, resi For capacitive load, derate current 	ure unless otherwis stive or inductive k	se specifie	d	Dimensi	ons in inch	es and (mil	imeters)	
		T	ES1A	ES1B	ES1C	ES1D	ES1G	Units
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	150	200	400	V
Maximum RMS Input Voltage		VRMS	35	70	105	140	280	V
Maximum DC Blocking Voltage		V _{DC}	50	100	150	200	400	V
Maximum Average Forward Output Current .375" 9.5mm lead length @ T _L = 110°C		l (AV)	1.0					А
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load		IFSM			30		-	А
MaximumForward Voltage Drop	At 0.6A At 1.0A	VF	-	0.90 0.98 1.25				V
Maximum Reverse Current At Rated	@ T _A = 25°C	IR	5				μА	

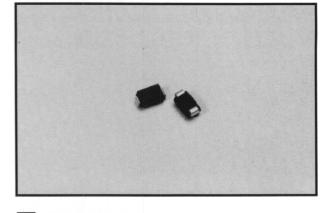
 t_{rr}

 C_J

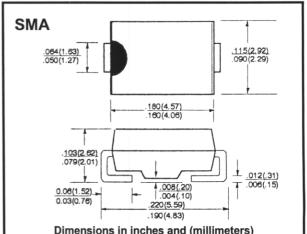
R(THJL)

 T_{J}

TSTG



Outline Drawing



@ T_A = 100°C

200

20

10 25

-65 to +150

-65 to +150

μΑ

nS

pF

°C/W

°C

°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 to lead measured on PC board 5.0mm2 X (0.013mm thick)