

SINGLE-PHASE SILICON BRIDGE Reverse Voltage - 65 to 1000 Volts **Forward Current -** 5.0 Amperes

Features

- Plastic material used carries Underwriters Laboratory recognition 94V-0
- High surge current capability
- Ideal for printed circuit board
- Typical I_R less than 1 μ A
- Built-in printed board stand offs

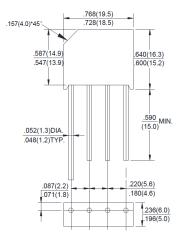
Mechanical Data

 Case: Reliable low cost construction utilizing molded plastic technique

• Terminals: Leads solderable per MIL-STD-202,

method 208

Mounting Position: AnyWeight: 0.92 ounce, 25.3 grams



Dimensions in inches and (milimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. resistive or inductive load at 50Hz or 60Hz.

	Symbols	RS501	RS502	RS503	RS504	RS505	RS506	RS507	Units
Maximum repetitive peak reverse voltage	V _{RRM}	65	125	200	400	600	800	1000	Volts
Maximum RMS input voltage R + C-Load	V _{RMS}	40	80	125	250	380	500	630	Volts
Maximum DC blocking voltage 1)	V _{DC}	65	125	200	400	600	800	1000	Volts
Maximum non-repetitive peak reverse voltage 1)	V _{RSM}	100	190	300	600	900	1200	1500	Volts
Maximum average forward output current I $_{\rm FAVM}$ natural cooling, T =45 $^{\circ}$ C $^{\circ}$ Load R+L-Load on chassis=31in², 200cm²; T $_{\rm A}$ =45 $^{\circ}$ C C-Load R+L-Load	I _(AV)				3.3 4.0 5.0 6.0				Amps
Maximum repetitive peak forward surge current	I _{FRM}	30.0							APK
Peak surge forward current single sine-wave on rated load $ \begin{matrix} T_{,j} = 25 \text{°C} \\ T_{,j} = 150 \text{°C} \end{matrix} $	I _{FSM}	250 200							APK
Path Rating for fusing T = 25 °C (t>8.3mS) T = 150 °C	l²t	312 200							A ² S A ² S
Minimum series resistance at $V_{\mbox{\tiny RMS}}$	R	0.15	0.3	0.6	1.2	1.8			ОНМ
Maximum reservoir capacitor	С	10000	5000	5000	2500	1000			μF
Maximum reverse current at rated repetitive peak voltage T , $\!$	I _R	10 6.0							μ A mA
Maximum instantaneous forward voltage drop per element at 5.0A	V _F	1.1							VPK
Operating and storage temperature range	T _J , T _{STG}	-55 to +150							$^{\circ}$
Mata		•							

Note:

(1) Valid for each bridge element



RATINGS AND CHARACTERISTIC CURVES

