

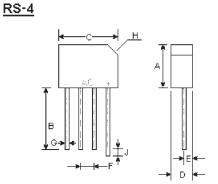
RS401L THRU RS407L

SINGLE-PHASE SILICON BRIDGE

Reverse Voltage - 50 to 1000 Volts Forward Current - 4.0 Amperes

Features

- Ideal for printed circuit board
- Surge overload rating 150 amperes peak
- Mounting Position: Any
- Lead: Silver-plated copper
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0



DIMENSIONS										
DIM	inches		m	Note						
	M in .	Max.	Min.	Max.	NOLE					
Α	0.605	0.825	15.367	16.383						
В	0.750		19	-						
С	0.730	0.770	18.542	19.558						
D	0.235	0.265	5.97	6.73						
E	0.070 Typ.		1.778							
F	0.190	0.210	4.83	5.33						
G	0.048	0.052	1.22	1.32	ф					
н										
J	0.200	Тур.	5.08							

Maximum Ratings and Electrical 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%.

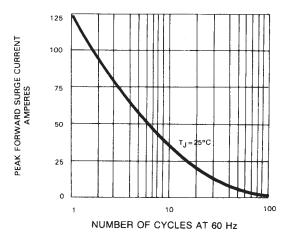
	Symbols	RS 401L	RS 402L	RS 403L	RS 404L	RS 405L	RS 406L	RS 407L	Units
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS bridge input voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum average forward output current at $\rm T_{A}{=}50^{\circ}C$ (Note 1)	ximum average forward output current $I_{A^{=50}C}$ (Note 1) 4.0							Amps	
Peak forward surge current, 8.3mS single half sine-wave superimposed on rated load					150.0				
Maximum forward Voltage drop per bridge element at 3.0A peak	V _F	1.0							Volt
Maximum DC reverse current at rate DC blocking voltage	I _R	10.0							μA
Maximum DC reverse current at rated DC blocking voltage and $T_{\rm A}{=}150{\rm ^\circ C}$	I _R	1.0							mA
Operating and storage temperature range	T _J , T _{stg}	-55 to +150						°C	

Note:

(1) Mounting conditions, 0.5" lead length maximum

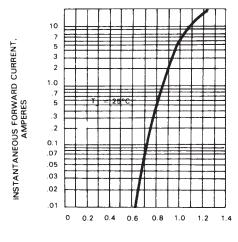
RATINGS AND CHARACTERISTIC CURVES

Fig. 1 - MAXIMUM FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60 Hz

FIG. 3. TYPICAL FORWARD CHARACTERISTICS



INSTANTEOUS FORWARD VOLTAGE, VOLTS

FIG. 2: DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

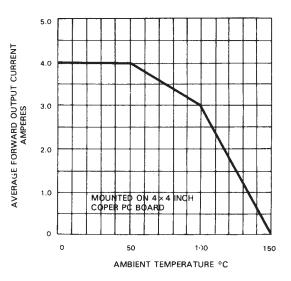
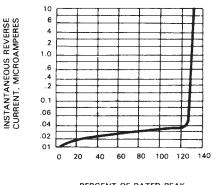


Fig. 4 – TYPICAL REVERSE CHARACTERISTICS (25°C)



PERCENT OF RATED PEAK REVERSE VOLTAGE