## **RS401S THRU RS407S**

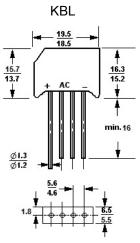
### Single-phase Bridge Rectifier Reverse Voltage - 50 to 1000 V Forward Current - 4 A

#### Features

- · Ideal for printed circuit board
- Low forward voltage drop
- · Low reverse leakage current

#### **Mechanical Data**

- Case: KBL
- Polarity: marked on body
- Mounting Position: Any



Dimensions in mm

#### **Maximum Ratings and Electrical Characteristics**

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

Parameter	Symbols	RS401S	RS402S	RS403S	RS404S	RS405S	RS406S	RS407S	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_A = 40 ^{\circ}$ C	I <sub>F(AV)</sub>	4							А
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	150							A
Current Squared Time at 1 ms $\leq$ t $\leq$ 8.3 ms	l <sup>2</sup> t	93							A <sup>2</sup> S
Maximum Forward Voltage Drop per Bridge Element at 4 A	V <sub>F</sub>	1.05							V
Maximum Reverse Current at Rated DC Blocking Voltage per Leg	I <sub>R</sub>	10							μA
Typical Thermal Resistance, Junction to Ambient <sup>1)</sup>	$R_{\thetaJA}$	13							°C/W
Typical Thermal Resistance, Junction to Lead <sup>2)</sup>	$R_{\theta JL}$	2.4							°C/W
Operating Temperature Range	Tj	- 55 to + 150							°C
Storage Temperature Range	T <sub>stg</sub>	- 55 to + 150							°C

<sup>1)</sup> Thermal resistance from junction to ambient with units mounted on 3 x 3 x 0.11" thick(7.5 x 7.5 x 0.3 cm) aluminum plate.

<sup>2)</sup> Thermal resistance from junction to lead with units mounted on P.C.B. at 0.375"(9.5 mm)lead length and 0.5 x 0.5"(12 x 12 mm) copper pads.



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