## Kingtronics®

### S50VB005 THRU S50VB100

#### SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

**S35** 

**REVERSE VOLTAGE** 50 to 1000 Volts

FORWARD CURRENT 50 Ampere

#### **FEATURES**

Rating to 1000V PRV High efficiency Glass passivated chip junction Electrically isolated metal case for maximum heat Dissipation

The plastic material has UL flammability classification 94V-0 Electrically isolated base-2500 Vlots

#### **MECHANICAL DATA**

Case: Molded plastic with Heatsink internally mounted

in the bridge encapsulation Polarity: As marked on Body Mounting: Hole for # 10 screw

I<sup>2</sup>t Rating for Fusing(t<8.3ms), (Note 1)

Typical Thermal Resistance

**Operating Temperature Range** 

Storage Temperature Range

2)

Typical Junction Capacitance per element (Note

Weight: 0.70 ounces, 20 grams (terminal)

# HOLE FOR 10# SCREW 200(5.10) 212(5.40) 1.263(32.1) 1.224(31.1) 1.693(17.6)

1.1) .693(17.6) .693(17.6) .661(16.8) .622(15.8) .622(1

(0.8)

.413(10.5) .374(9.5)

 $A^2S$ 

pF

°C/W

 $\mathbb{C}$ 

#### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25℃ ambient temperature unless otherwise specified, Single phase, half wave, 60Hz, resistive or inductive load.

Dimensions in inches and (millimeters)

800

150

1.4

-55 to +150

-55 to +150

For capacitive load derate current by 20%	'	Dimensions in mones and (minimeters)							
PARAMETER	SYMBOL	S50VB 005	S50VB 10	S50VB 20	S50VB 40	S50VB 60	S50VB 80	S50VB 100	UNIT
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RRM}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward  Rectified Current @Tc=Ta	I <sub>(AV)</sub>	50.0							А
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load	IFSM	450							Α
Maximum Forward Voltage at 17.5A DC	$V_{F}$	1.1						V	
Maximum DC Reverse Current @ TJ=25℃ atrated DC blocking voltage @ TJ=125℃	IR	5.0 500							uA
									_

l<sup>2</sup>t

 $C_{.1}$ 

Rejc

 $T_{\mathsf{J}}$ 

Tstg

- 1-Measured at non-repetitive, for greater than 1ms and less than 8.3ms
- 2- Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

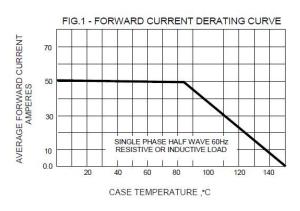
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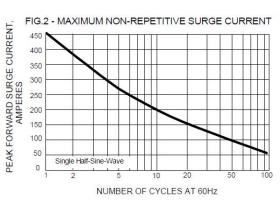
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

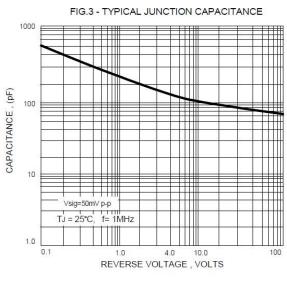
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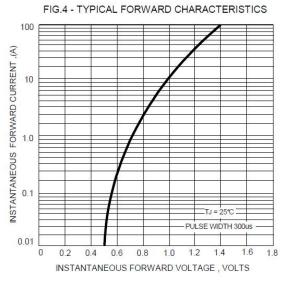
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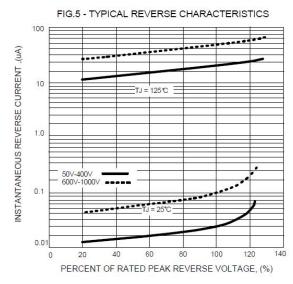
#### RATINGS AND CHARACTERISTIC CURVES











Note: Specifications are subject to change without notice.

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