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

I²t 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 _(AV)	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
									_

l²t

 $C_{.1}$

Rejc

 T_{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.

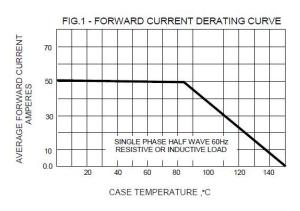
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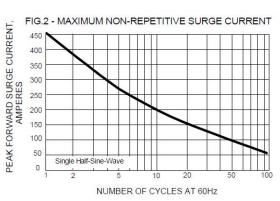
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

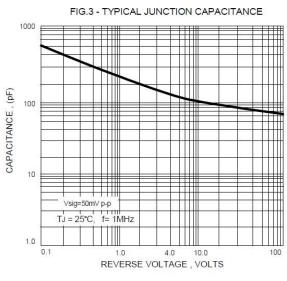
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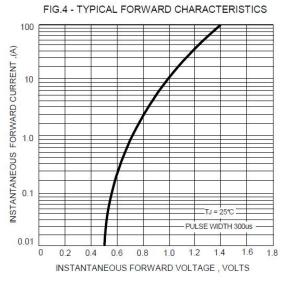
S50VB005 THRU S50VB100

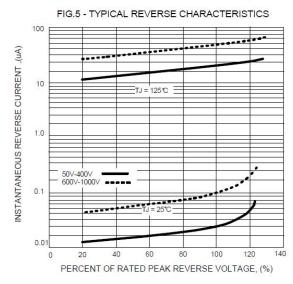
RATINGS AND CHARACTERISTIC CURVES











Note: Specifications are subject to change without notice.

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