

# **KBPC25.10BY**

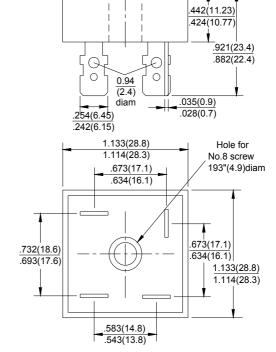
## 1PH POWER RECTIFIER BRIDGE 25A 1000V

#### **Features**

- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Electrically Isolated Metal Case for Maximum Heat Dissipation
- Low Thermal Resistance
- High Surge Current Capability

#### **Mechanical Data**

- Case: KBPC (Metal Case with Faston Lugs)
- Terminals: Plated Faston Lugs or Wire Leads, Add "W" Suffix to Indicate Wire Leads
- Polarity: As Marked on Case
- Mounting: Through Hole with #10 Screw
- Mounting Torque: 2.0 N.m Max.
- Weight: 30 gramsMarking: Type Number
- Lead Free: For RoHS / Lead Free Version



### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

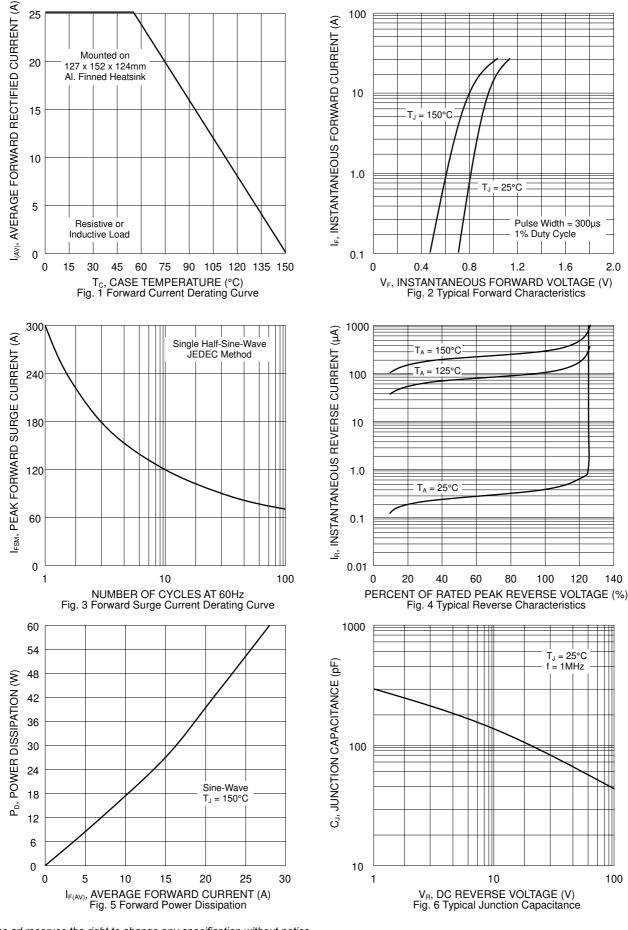
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBPC25.10BY	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	1000	٧
RMS Reverse Voltage	VR(RMS)	700	٧
Average Rectified Output Current @T <sub>C</sub> = 55°C	lo	25	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	300	Α
Forward Voltage per leg @I <sub>F</sub> = 12.5A	VFM	1.1	٧
Peak Reverse Current $@T_C = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_C = 125^{\circ}C$	IRM	10 500	μΑ
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	I <sup>2</sup> t	375	A <sup>2</sup> s
Typical Junction Capacitance (Note 1)	Сı	200	pF
Typical Thermal Resistance (Note 2)	Rθ JC	1.7	°C/W
RMS Isolation Voltage, t = 1min	Viso	2500	٧
Operating and Storage Temperature Range	Тл, Тѕтс	-55 to +150	°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case, mounted on 127 x 152 x 124mm Al. heatsink.





Scomes srl reserves the right to change any specification without notice

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