



KBPC35.12GBY

1PH POWER RECTIFIER BRIDGE 35A 1200V

Features

- Glass Passivated Die Construction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Heatsink Integrated Epoxy Case for Maximum Heat Dissipation
- Low Thermal Resistance
- High Surge Current Capability

Mechanical Data

- Case: Epoxy Case with Heatsink, Available in Both Low Profile and Standard Case Height
- 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: 21 grams
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version,



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

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

Characteristic	Symbol	KBPC35.12BY	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	1200	V
RMS Reverse Voltage	VR(RMS)	840	V
Average Rectified Output Current @ $T_c = 55^{\circ}C$	lo	35	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	400	A
Forward Voltage per leg $@I_F = 17.5A$	VFM	1.1	V
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 125^{\circ}C$	Iгм	10 500	μA
$I^{2}t$ Rating for Fusing (t < 8.3ms)	l ² t	660	A ² s
Typical Junction Capacitance (Note 1)	CJ	300	pF
Typical Thermal Resistance (Note 2)	RθJC	1.4	°C/W
RMS Isolation Voltage, t = 1min	Viso	2500	V
Operating and Storage Temperature Range	TJ, TSTG	-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 241 x 89 x 117mm Al. heatsink.





Scomes srl reserves the right to change any specification without notice

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