



WEE Technology Company Limited

Single Phase Bridge Rectifiers

KBPC35005W THRU KBPC3510W

Silicon Bridge Rectifiers

Features

- Low forward voltage drop
- Electrically isolated base -2000 Volts
- High surge forward current capability
- Materials used carries U/L recognition

Mechanical Data

- Polarity: Symbol marked on body
- Mounting position: Any

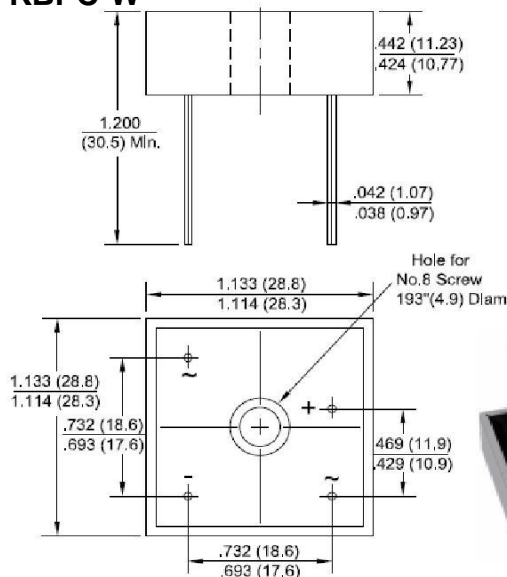
Applications

- General purpose use in AC/DC bridge full wave rectification, for power supply, industrial automation applications, etc.

Reverse Voltage - 50 to 1000 Volts

Forward Current - 35 Amperes

KBPC-W



RoHS
COMPLIANT

Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	KBPC 35005W	KBPC 3501W	KBPC 3502W	KBPC 3504W	KBPC 3506W	KBPC 3508W	KBPC 3510W	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum Average Forward Rectified Current @Tc=55 °C	$I_{(AV)}$	35							A
Peak Forward Surge Current, 8.3mS Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I_{FSM}	400							A
I^2t Rating for Fusing (t<8.3mS)	I^2t	664							A ² s
Peak Forward Voltage per Diode at 17.5A DC	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage per Diode @Tj=25°C	I_R	10							μA
Operating Junction Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

Rating and Characteristic Curves KBPC35005W THRU KBPC3510W

Fig. 1 - Forward Current Derating Curve

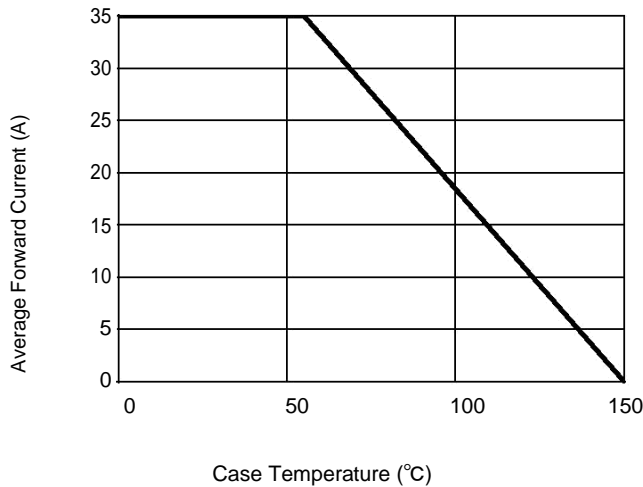


Fig. 2 - Maximum Non-Repetitive Surge Current

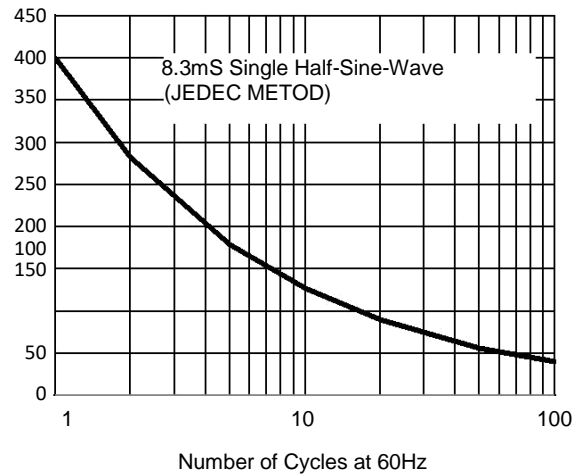


Fig. 3 - Typical Reverse Characteristics

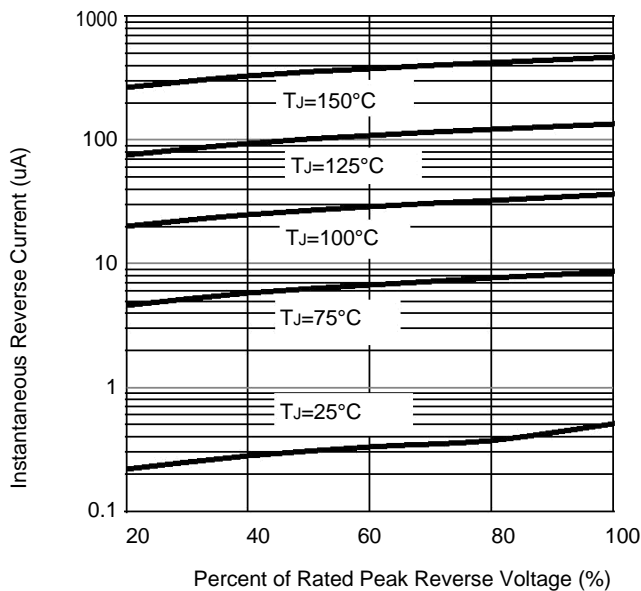
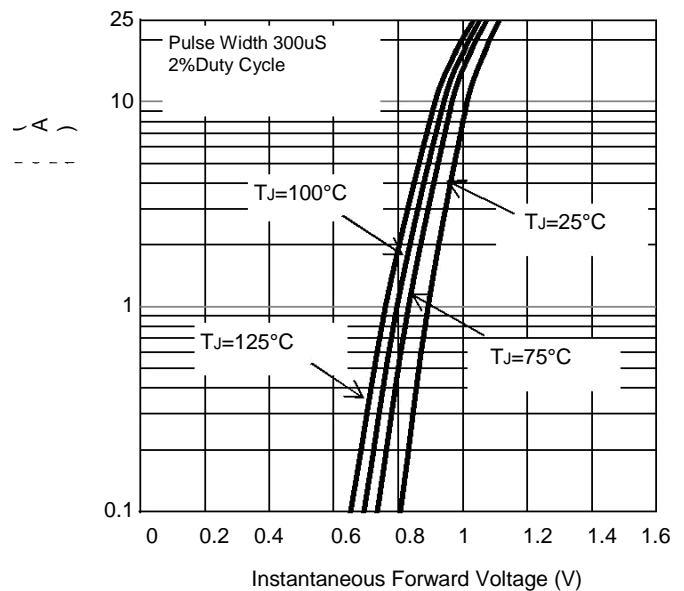


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.