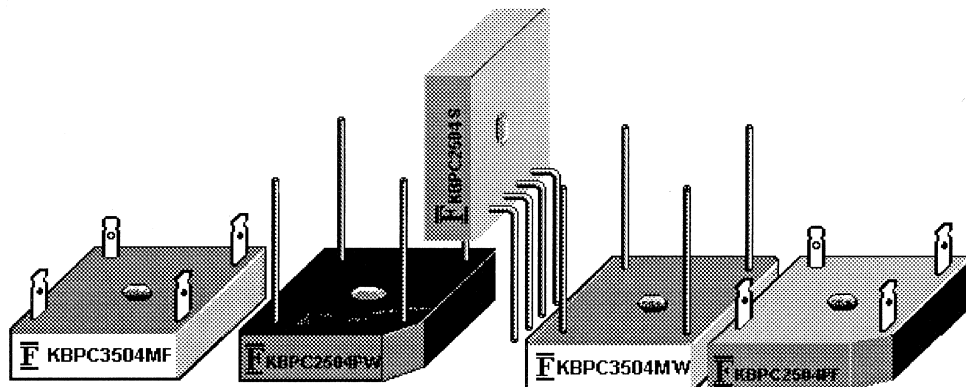


# 35 Amps Plastic Case Silicon Bridge Rectifiers

## Description

## Mechanical Dimensions

KBPC3500~3510



### KBPC-PF

### Dimensions in mm

#### Feature

- Surge overload 400A
- Low forward voltage drop
- Mounting Position: Any
- Electrically isolated base-2000Volts
- Solderable 0.25" Faston Terminals
- Materials used carries U/L recognition

#### Mechanical Data

- Case: Molded plastic body over passivated junctions
- Polarity: Polarity symbols molded on body
- Terminals: Lead Solderable per MIL-STD-750 Method 2026
- Mounting Torque: 5 in-lbs max
- Weight: 19.5 grams(Faston); 14.5grams(Wire Lead)

Max Ratings at Ta=25C Unless Otherwise Specified

Characteristic	Symbol	KBPC3500~3510							Unit
		3500	3501	3502	3504	3506	3508	3510	
Peak Repetitive Reverse Voltage	V <sub>rrm</sub>	50	100	200	400	600	800	1000	V
working Peak Reverse Voltage	V <sub>rwm</sub>	35	70	140	280	420	560	700	V
DC Blocking Voltage	V <sub>dc</sub>	50	100	200	400	600	800	1000	V
Forward Continuous Current	I <sub>F(AV)</sub>	35							A
Peak Forward Surge Current 10ms Sine pulse, rated V <sub>rrm</sub> applied	I <sub>FSM</sub>	400							A
Max Forward Voltage I <sub>F</sub> =17.5A @25C	V <sub>f</sub>	1.0							V
Reverse Leakage Current WITH V <sub>r</sub> @ 25C/125C	I <sub>r</sub>	5.0/500							uA
Operating & Storage Temp. Range	T <sub>j</sub> /T <sub>s</sub>	-40 ~+125							C
Thermal Resistance Junction to Case	R <sub>thja</sub>	2.6							C/W
Thermal Resistance Case to Heatsink	R <sub>thjc</sub>	2.3							C/W
Rating for fusing(t<8.3ms)	I <sup>2</sup> t	374							C/W



# 35 Amps Plastic Case Silicon Bridge Rectifiers

Rating Characteristic Curves KBPC3500~3510(Ta=25C Unless otherwise noted)

FIG.1-MAXIMUM FORWARD SURGE CURRENT

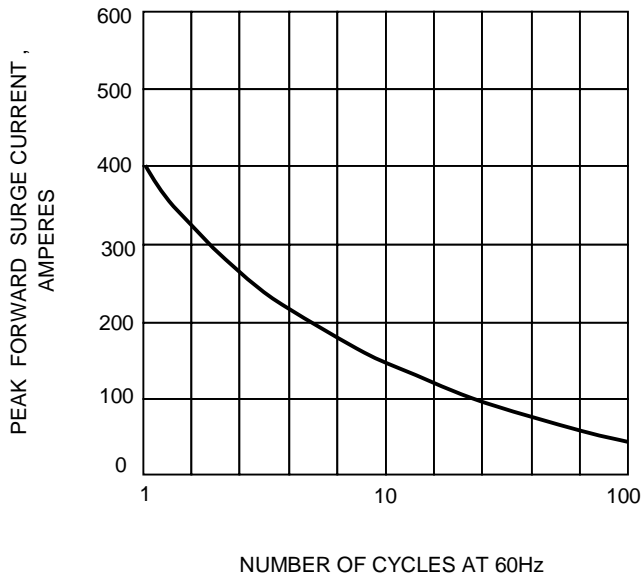


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

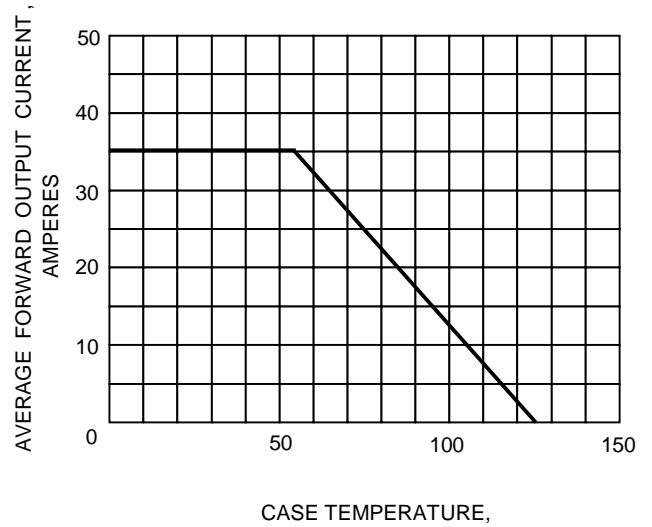


FIG.3-TYPICAL FORWARD CHARACTERISTICS

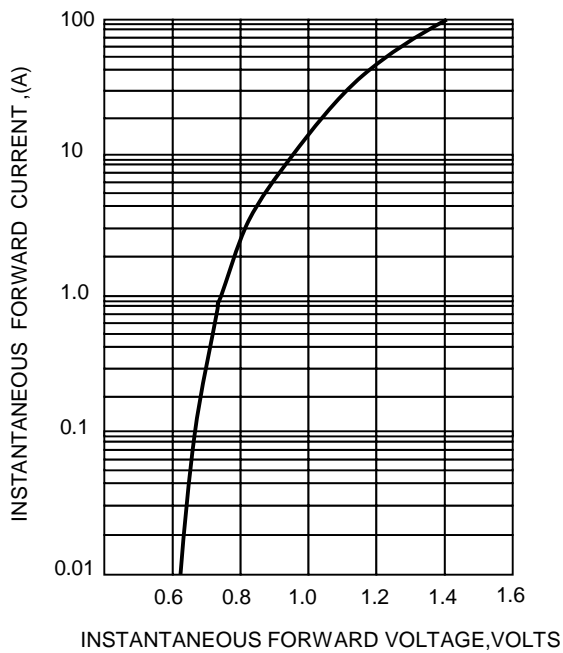


FIG.4-TYPICAL REVERSE CHARACTERISTICS

