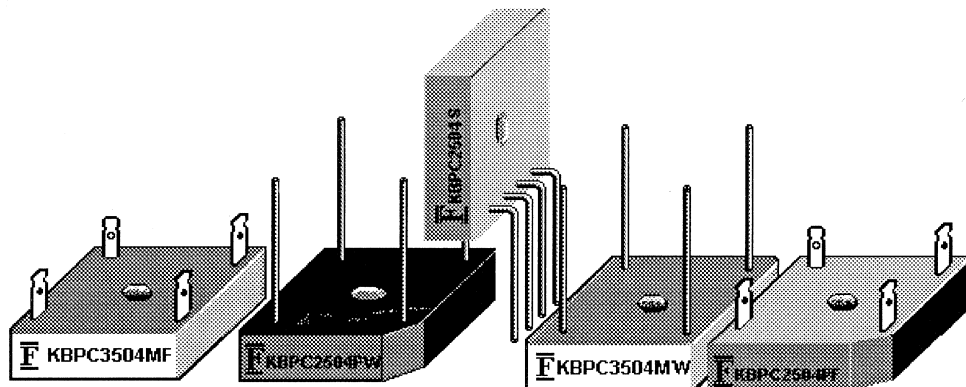


35 Amps Plastic Case Silicon Bridge Rectifiers

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 _{rrm}	50	100	200	400	600	800	1000	V
working Peak Reverse Voltage	V _{rwm}	35	70	140	280	420	560	700	V
DC Blocking Voltage	V _{dc}	50	100	200	400	600	800	1000	V
Forward Continuous Current	I _{F(AV)}	35							A
Peak Forward Surge Current 10ms Sine pulse, rated V _{rrm} applied	I _{FSM}	400							A
Max Forward Voltage I _F =17.5A @25C	V _f	1.0							V
Reverse Leakage Current WITH V _r @ 25C/125C	I _r	5.0/500							uA
Operating & Storage Temp. Range	T _j /T _s	-40 ~+125							C
Thermal Resistance Junction to Case	R _{thja}	2.6							C/W
Thermal Resistance Case to Heatsink	R _{thjc}	2.3							C/W
Rating for fusing(t<8.3ms)	I ² 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

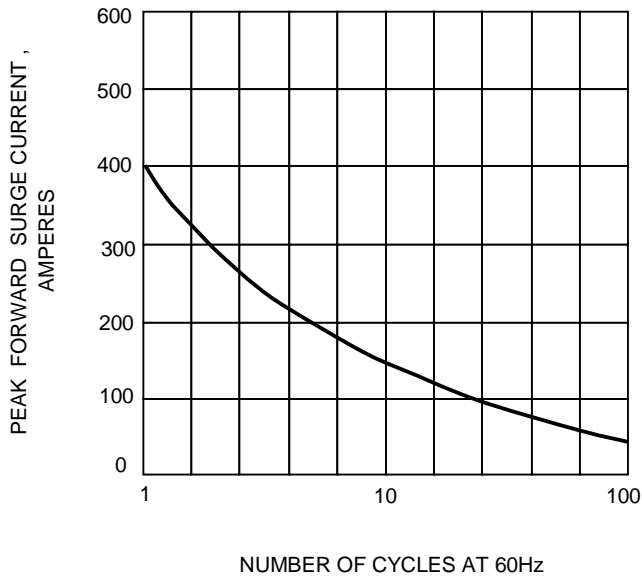


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT

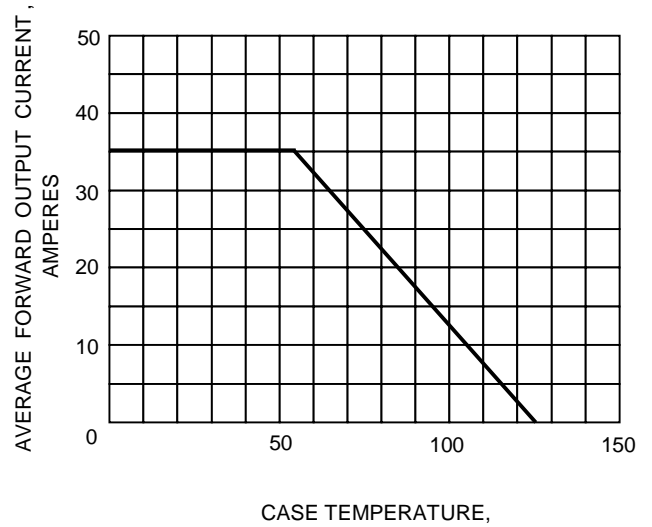


FIG.3-TYPICAL FORWARD CHARACTERISTICS

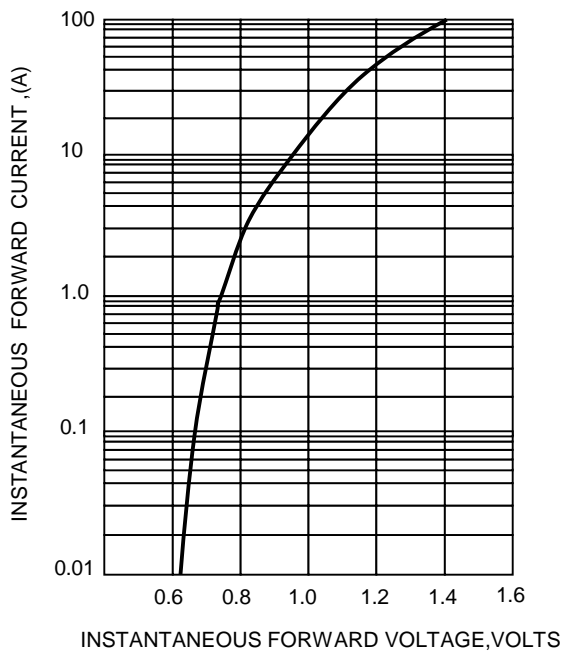


FIG.4-TYPICAL REVERSE CHARACTERISTICS

