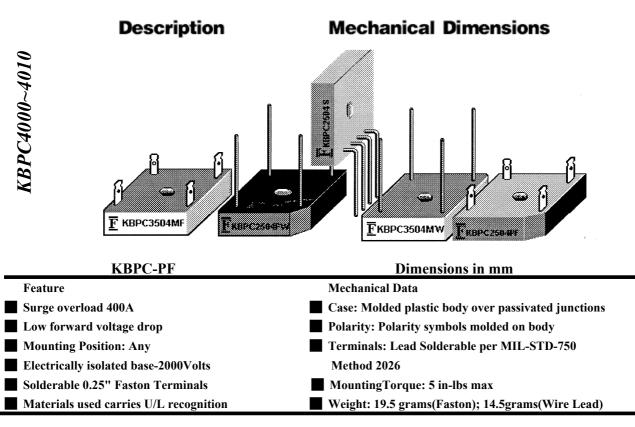


Data Sheet

40 Amps Plastic case Silicon Bridge Rectifiers



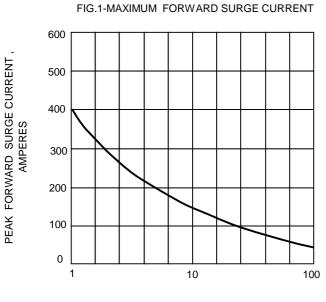
Max Ratings at Ta=25C Unless Otherwise Specified

Characteristic		KBPC4000~4010							Unit
	Symbol	4000	4001	4002	4004	4006	4008	4010	
Peak Repetitive Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
working Peak Reverse Voltage	Vrwm	35	70	140	280	420	560	700	V
DC Blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Forward Continuous Current	IF(AV)	40							V
Peak Forward Surge Current 10ms Sine pulse, rated Vrrm applied	IFSM	400							A
Max Forward Voltage IF=20A @25C	Vf	1.0							V
Reverse Leakage Current WITH Vr @ 25C/125C	Ir	5.0/500							uA
Operating & Storage Temp. Range	Tj/Ts	-40 ~+125							С
Thermal Resistance Junction to Case	Rthja	2.6							C/W
Thermal Resistance Case to Heatsink	Rthjc	2.3							C/W
Rating for fusing(t<8.3ms)	I ² t	374							C/W



40 Amps Plastic case Silicon Bridge Rectifiers

Rating Characteristic Curves KBPC4000~4010(Ta=25C Unless otherwise noted)



NUMBER OF CYCLES AT 60Hz

FIG.3-TYPICAL FORWARD CHARACTERISTICS

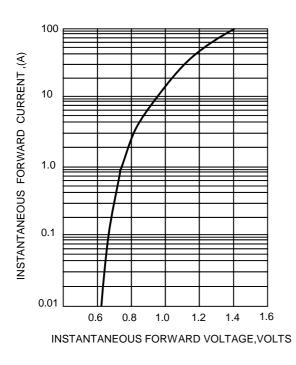
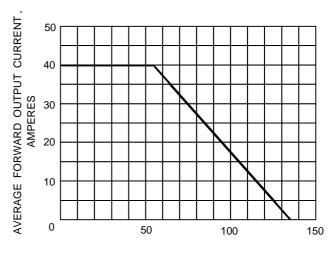


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT



CASE TEMPERATURE,

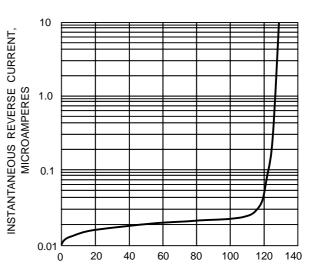
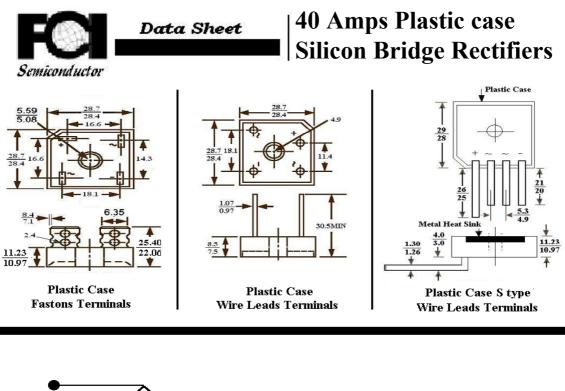
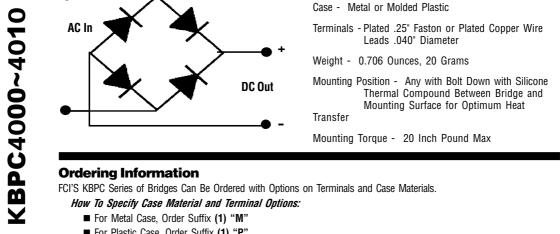


FIG.4-TYPICAL REVERSE CHARACTERISTICS

PERCENT OF RATED PEAK REVERSE VOLTAGE





- For Plastic Case, Order Suffix (1) "P"
- For Faston Terminals, Order Suffix (2) "F"
- For Wire Lead Terminals, Order Suffix (2) "W"

KBPC Series Examples

To Order a 25 Amp, 400 Volt Bridge with Faston Leads and a Plastic Case: Specify - KBPC2504PF . . . Where "P" = Plastic and "F" = Faston Terminals

To Order a 35 Amp, 800 Volt Bridge with Wire Leads and a Metal Case: Specify - KBPC3508MW . . . Where "M" = Metal and "W" = Wire Leads (Terminals)

To Order a 15 Amp, 200 Volt, UL Recognized Bridge with Wire Leads and a Plastic Case: Specify - KBPC1502PWU . . . Where "P" = Plastic and "W" = Wire Leads (Terminals) and "U" = UL Recognized

NOTE: Fast Recovery Bridges (Diodes) Are Available; Please Contact FCI Components.

KBPC • "S" Series Examples

To Order Bridges with the "In-Line" Pin Configuration, Select the Current and Voltage Desired and Add "S" as the Suffix, as shown in the following example.

To Order a 35 Amp, 800 Volt Bridge with In-Line Wire Leads: Specify - KBPC35088 . . . Where "S" = In-Line Wire Lead Terminals