EDCON-COMPONENTS

Specifications

Features

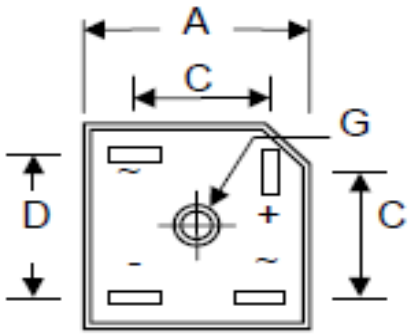
Glass passivated Die Contruction
Low Reverse Leakage Current; Low Power Loss, High Efficiency; Case to Terminal Isolation 2500V
Electrically Isolated Epoxy Case for Maximum Heat Dissipation
UL Registrated under File Number # 157705

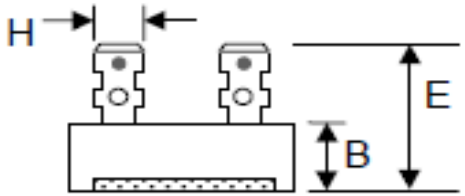
Mechanical Data

Molded plastic body with Heatsink, Available in both Style Low Profile and Standard Size
Terminals: plated leads solderable per MIL-STD 202 Method 208
Polarity symbols marked on body.
Weight 3,8gram

	Low Profile Size	Standard Size
Dim	min	max.
A	28,4	28,7
B	7,50 / 10,97	8,50 / 11,23
C	15,7	16,7
D	17,5	18,5
E	19,08/ 22,86	21,58/ 25,40
G	Hole f. #10 screw 5,08Ø Nom.	
H	6,35 typical	

Technical Drawing (Unit: mm)





Maximum Ratings & Electrical Characteristics Ratings at 25°C ambient temperature

	Sym bols	GBPC 4000	GBPC 4001	GBPC 4002	GBPC 4004	GBPC 4006	GBPC 4008	GBPC 4010	GBPC 4012	GBPC 4014	GBPC 4016	Unit
Maximum reecurrent peak reverse Voltage	VRRM	50	100	200	400	600	800	1000	1200	1400	1600	Volt
Maximum rms Input voltage	VRMS	35	70	140	280	420	560	700				Volt
Maximum dc blocking Voltage	VDC	50	100	200	400	600	800	1000	1200	1400	1600	Volt
Average Rectified Output Current Note 1 @ Ta=50°C	Io	40,0										Amps
Non-Repetitive Peak Forward Surge Current 8,3ms Single half wave superimposed on rated load (Jedec Method)		400										Amps
Forward Voltage per leg		1,1										V
Peak Reverse Current Ta=25°C At Rated DC Blocking Voltage Ta=125°C		5 ,0 500										µA
I²t Rating for Fusing (t<8,3ms) (Note 2)		660,0										A²sec
Typical Juntion Capacitance (Note 3)		400										pf
Typical Thermal Resistacne per leg (Note 1)		1,4										°C/W
Operating and Storage Temperature Range		. -65 ~ +150										°C

Note (1) Mounted on 105x105x3,0mm AL-plate (2) Non-repetitive, for t>1ms and < 8,3ms. (3) Measured at 1,0MHz and applied reverse voltage of 4.0 VDC

Quad Bridge Rectifier 40A (Glass Passivated)

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.05.2010	EDCON-Ser.	E16005
APPD:	Schumi			FINISH	Jamy		Sheet No.		1 from 5	International Serie:	GBPC40xx

www.edcon-components.com
email: info@edcon-components.com

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Rating & Characteristics Curves (TA=25°C unless otherwise noted)

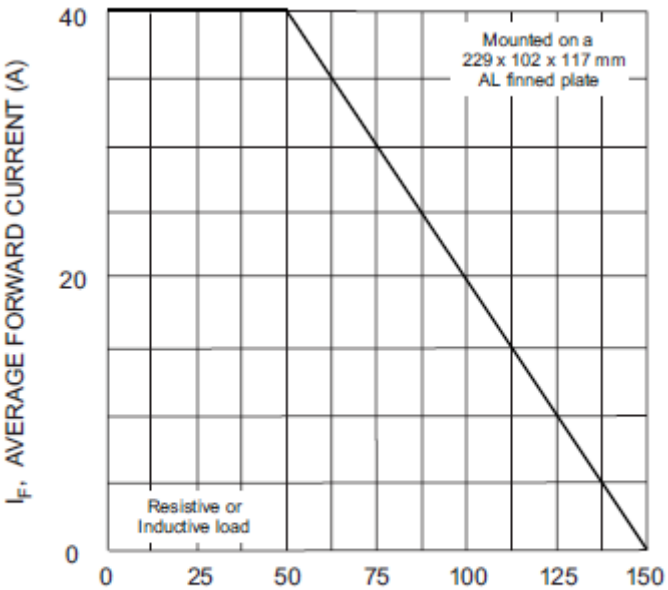

Fig. 1 Forward. Current Derating Curve

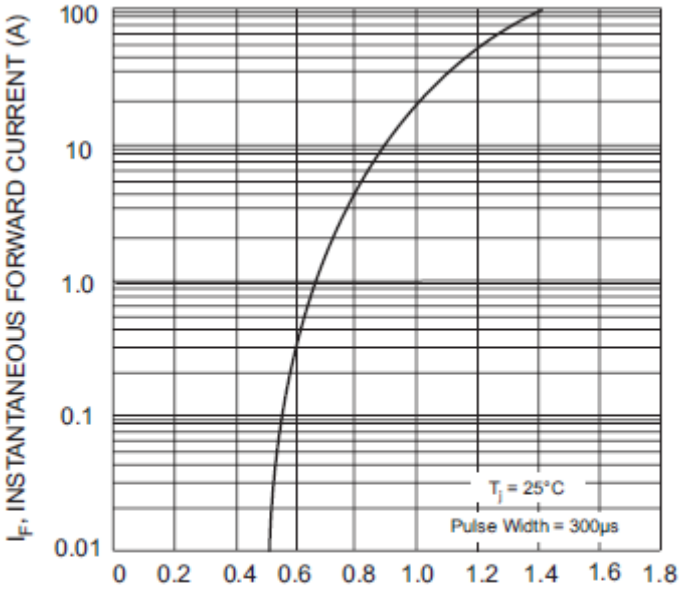

Fig. 2 Typical Forward Characteristics (per element)

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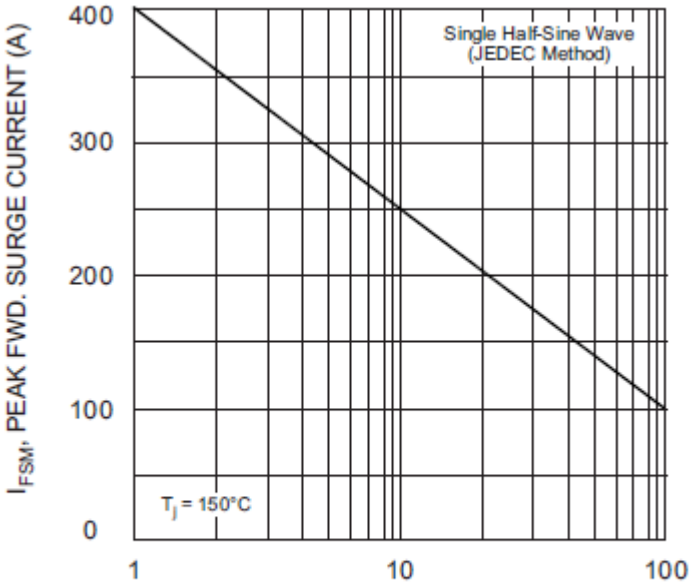

Fig. 3 Max Non-Repetitive Surge Current

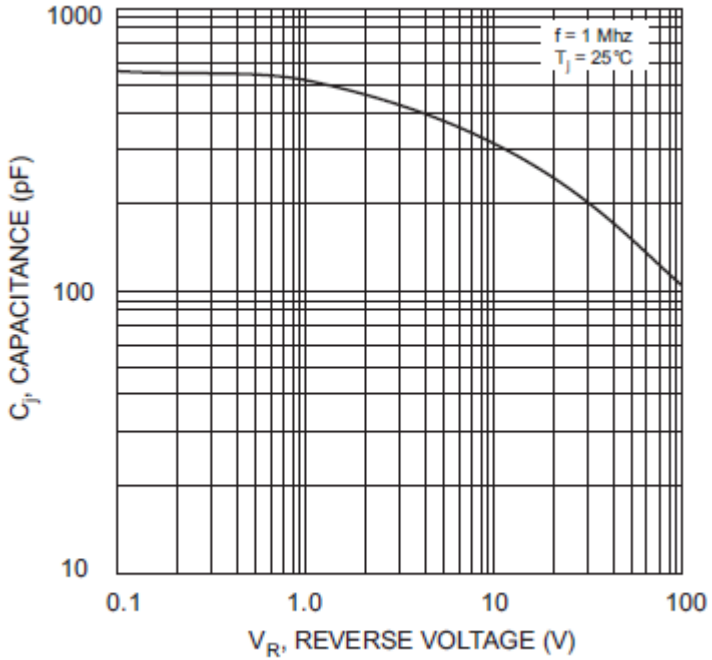

Fig. 4 Typical Junction Capacitance (per element)

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APPD:	Schumi			FINISH	Jamy		Sheet No.		3 from 5		

Rating & Characteristics Curves (TA=25°C unless otherwise noted)

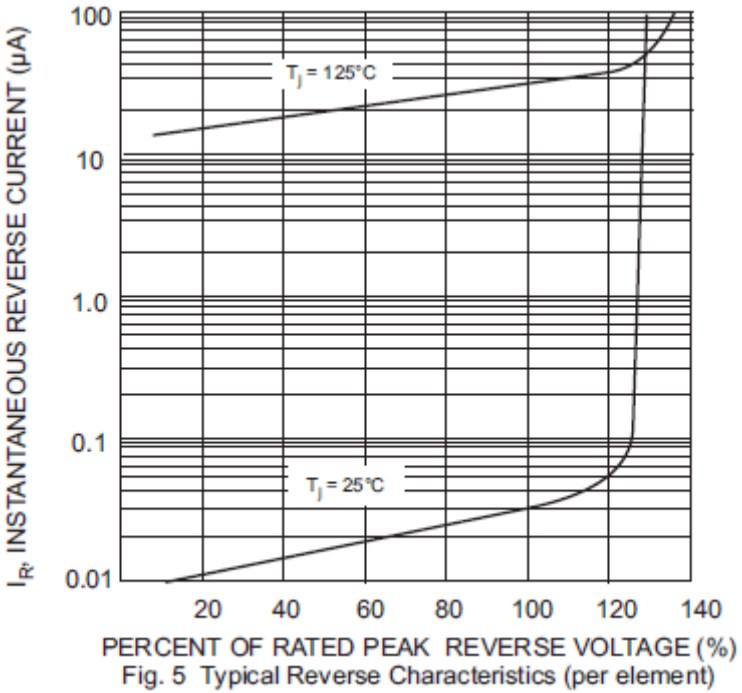

Fig. 5 Typical Reverse Characteristics (per element)

Ordering Informations

EDCON Serie	International Type	No function	ROHS	Package
E16005	**GBPC40xx**	**xx**	**R**	**BX**

Look Voltage Code Table		**R**= ROHS Conform	**BX**= Box Packing
		N= NON ROHS Conform	

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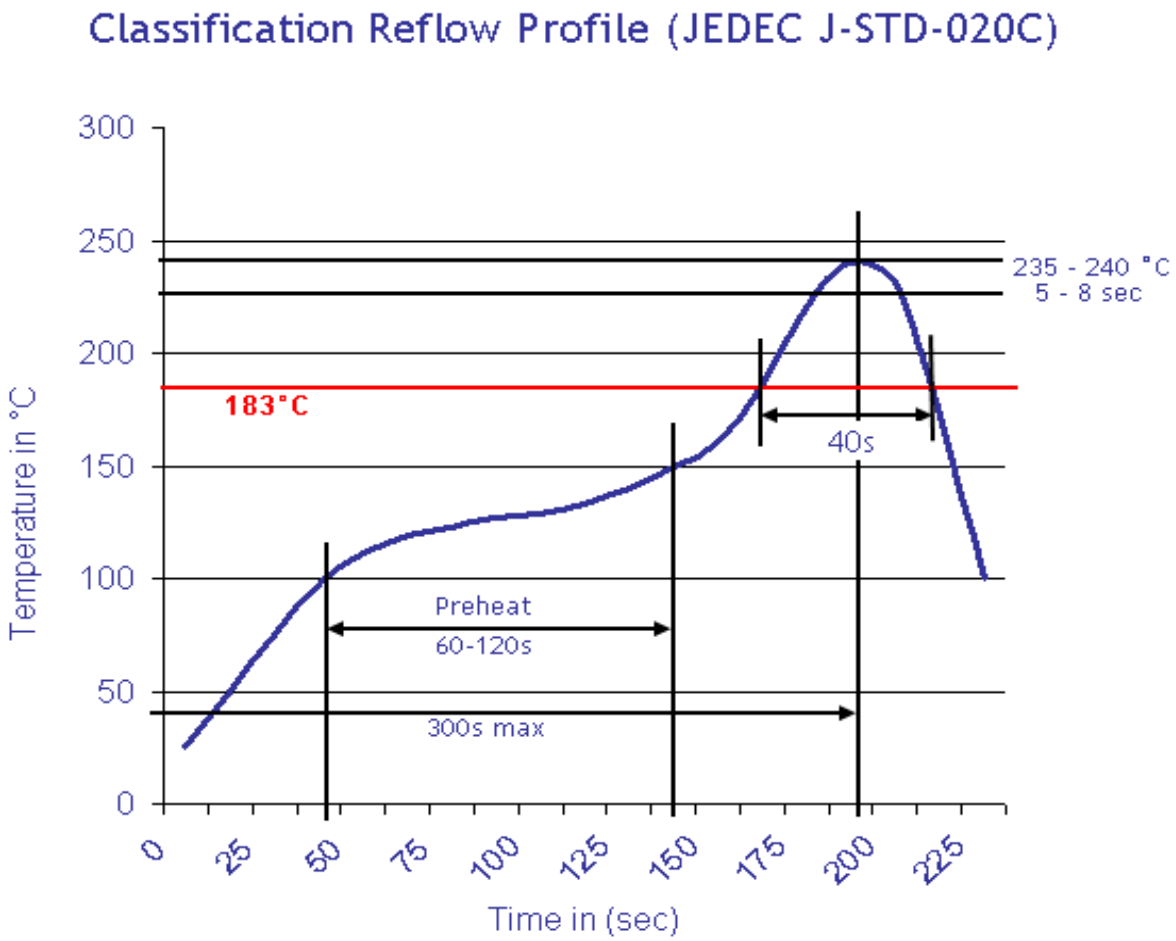
Soldering Profile Curve



Quad Bridge Rectifier 40A (Glass Passivated)

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