EDCON-COMPONENTS

Specifications

Features

Glass passivated Die Contruction
High Current Capability; High Case Dielectric Strength; High Surge Current Capability
Plastic Material has UL Flammability Class 94V-0
UL Registrated under File Number # 157705

Mechanical Data

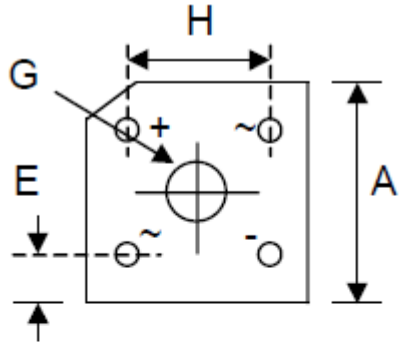
Molded plastic body
Terminals: plated leads solderable per MIL-STD 202 Method 208
Polarity symbols marked on body.
Weight 3,8gram

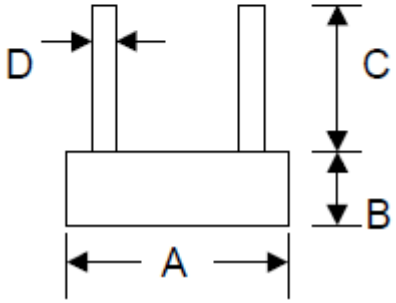
Maximum Ratings & Electrical Characteristics Ratings at 25°C ambient temperature

	Sym bols	KBPC 300G	KBPC 301G	KBPC 302G	KBPC 304G	KBPC 306G	KBPC 308G	KBPC 310G	Unit
Maximum reecurrent peak reverse Voltage	VRRM	50	100	200	400	600	800	1000	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	Volt
Average Rectified Output Current Note 1 @ Ta=50°C	Io	3							Amps
Non-Repetitive Peak Forward Surge Current 8,3ms Single half wave superimposed on rated load (Jedec Method)		60							Amps
Forward Voltage per leg		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)		15,0							A²sec
Typical Juntion Capacitance (Note 3)		21,0							pf
Typical Thermal Resistacne per leg (Note 1)		8,0							°C/W
Operating and Storage Temperature Range		. -65 ~ +150							°C

Technical Drawing (Unit: mm)

DIM	Min.	Max.
A	14,73	15,75
B	5,84	6,86
C	19,0	----
D	0,76Ø Typic.	
E	1,7	2,7
G	Hole for #6 scr	
	3,6	4,0
H	10,3	11,3





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 3A (Glass Passivated)

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.05.2010	EDCON-Ser.	E18001
APPD:	Schumi			FINISH	Jamy		Sheet No.		1 from 5	International Serie:	KBPC3xxG

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

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

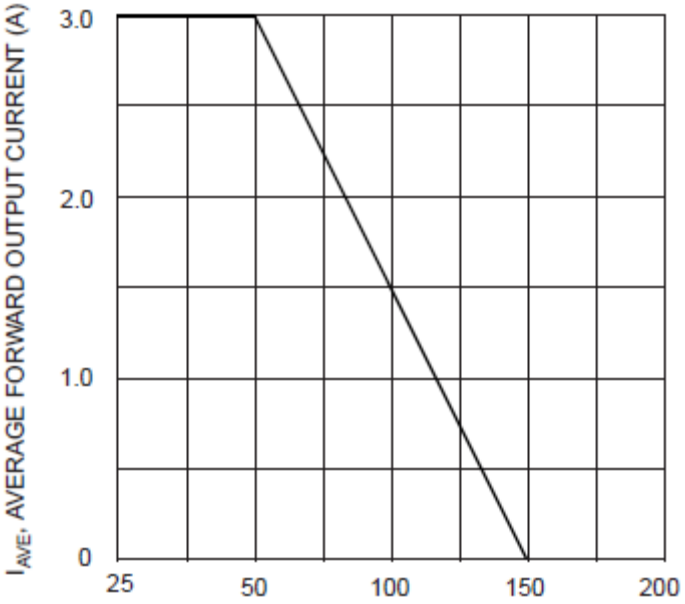


Fig. 1 Forward Current Derating Curve

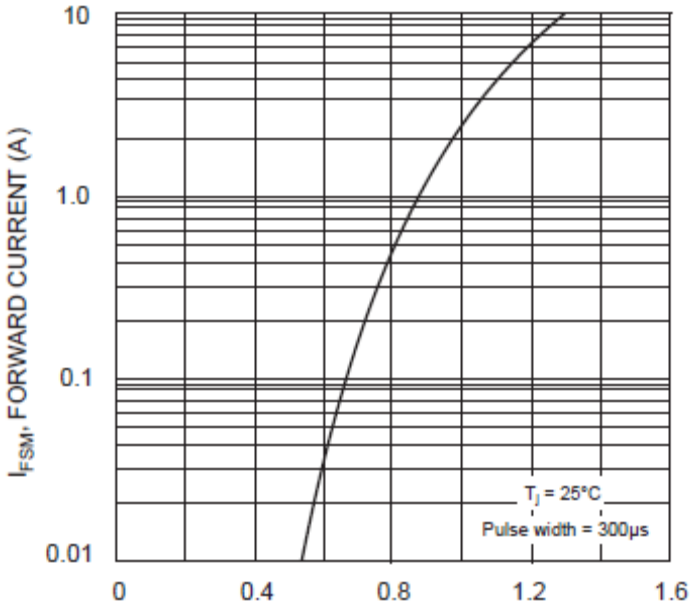


Fig. 2 Typical Forward Characteristics, per element

										Quad Bridge Rectifier 3A (Glass Passivated)	
										EDCON-Ser.	**E18001**
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Rating & Characteristics Curves (TA=25°C unless otherwise noted)

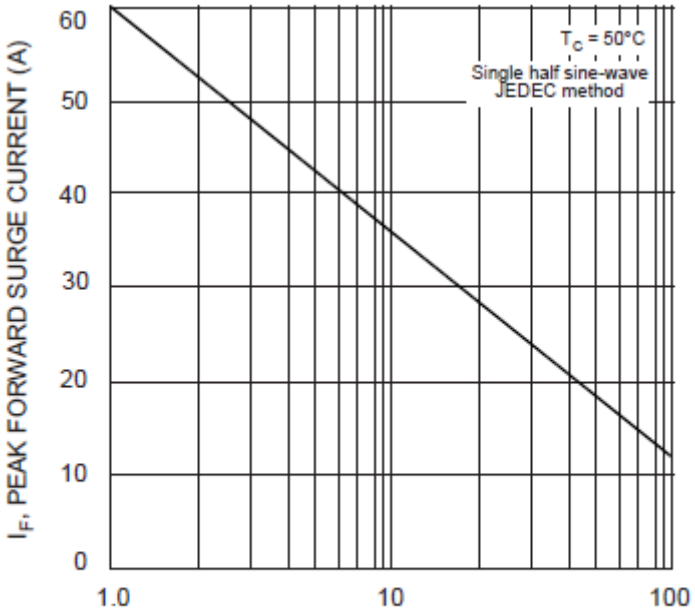

Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

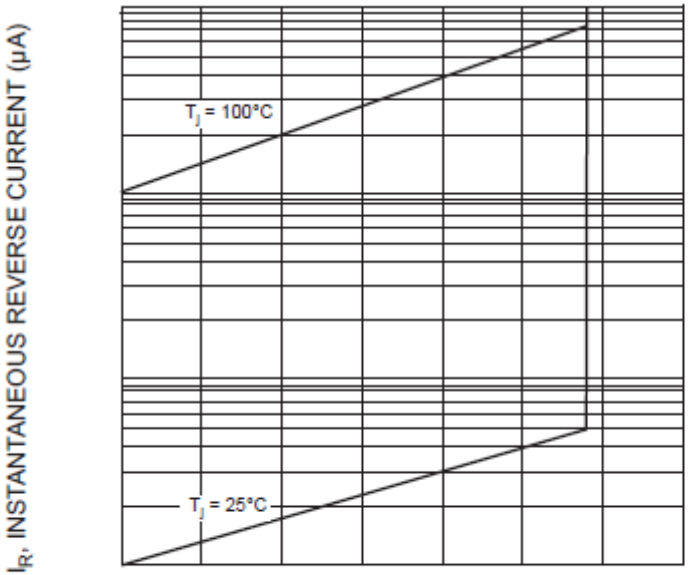

Fig. 4 Typical Reverse Characteristics, per element

										Quad Bridge Rectifier 3A (Glass Passivated)	
										EDCON-Ser.	**E18001**
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APPD:	Schumi			FINISH	Jamy		Sheet No.		3 from 5		

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Ordering Informations

EDCON Serie	International Type	Lead Function	ROHS	Package						
E18001	**KBPC3xxG**	**LL**	**R**	**BX**						

Look Voltage Code Table	**LL=** Long Lead	**R**= ROHS Conform	**BX**= Box Packing
	L4= 4mm Lead Length	**N**= NON ROHS Conform	

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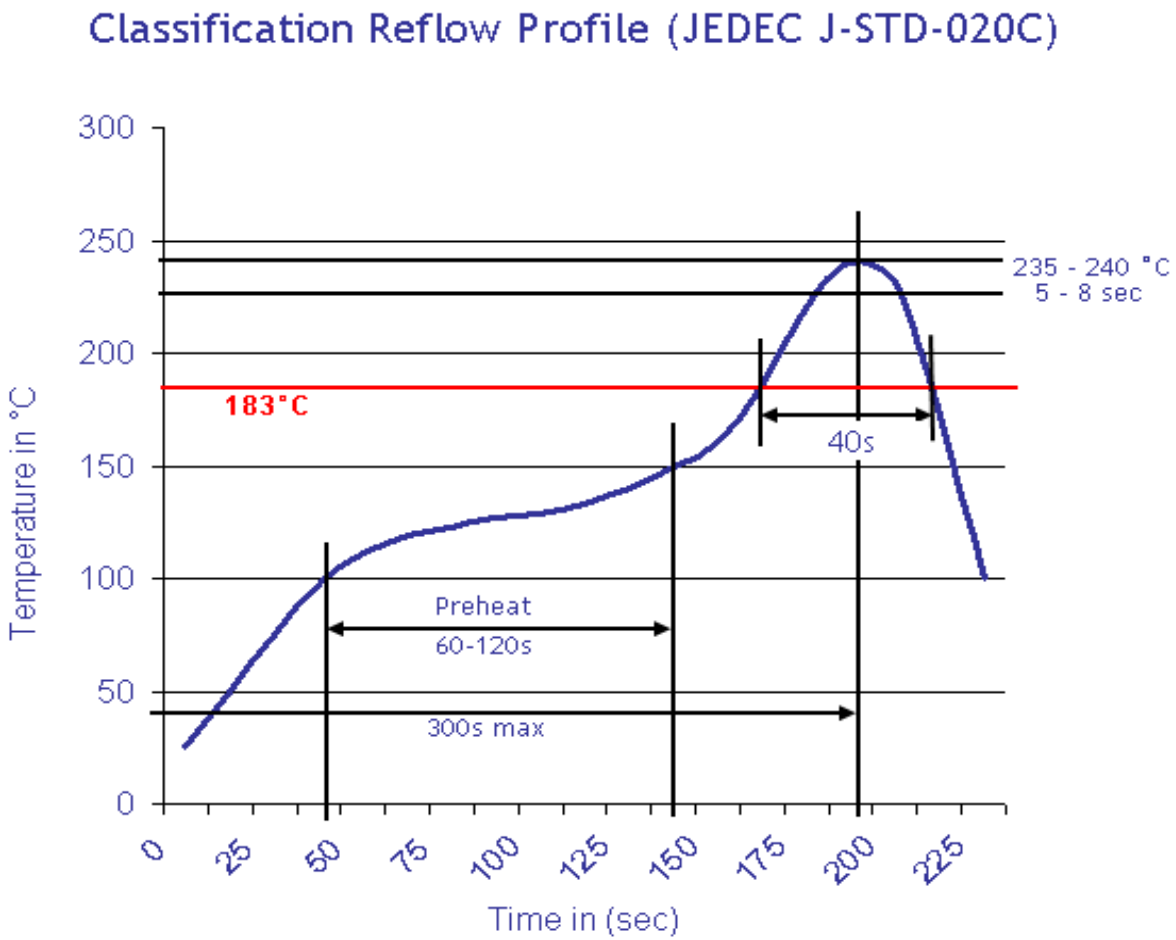
Soldering Profile Curve



Quad Bridge Rectifier 3A (Glass Passivated)

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