

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

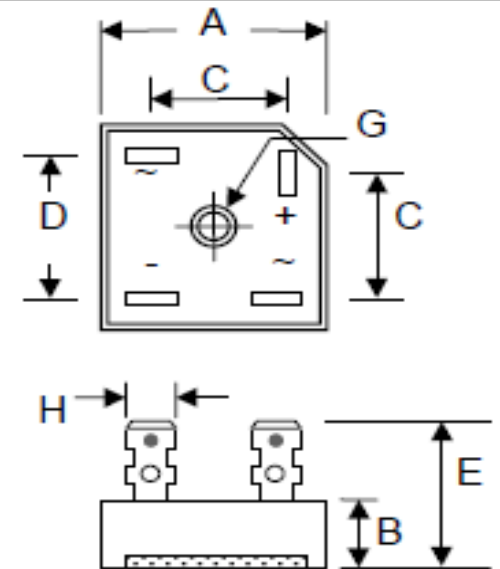
Molded plastic body with Heatsink, Available in both Style Low Profile and Standard Size
Terminals: plated leads solderable per MIL-STD 202 Method 208
Polarity symbols marked on body.
Weight 3,8gram

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

	Sym bols	GBPC 1500	GBPC 1501	GBPC 1502	GBPC 1504	GBPC 1506	GBPC 1508	GBPC 1510	GBPC 1512	GBPC 1514	GBPC 1516	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	15,0										Amps
Non-Repetitive Peak Forward Surge Current 8,3ms Single half wave superimposed on rated load (Jedec Method)		300										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
I ² t Rating for Fusing (t<8,3ms) (Note 2)		375,0										A ² sec
Typical Juntion Capacitance (Note 3)		300										pf
Typical Thermal Resistacne per leg (Note 1)		1,9										°C/W
Operating and Storage Temperature Range		-65 ~ +150										°C

Technical Drawing (Unit: mm)

	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	



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 15A
(Glass Passivated)**

EDCON-Ser. **E16002**

International Serie: **GBPC15xx**

DRW:	Jason	CHKD:	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	10.05.2010
APPD:	Schumi			FINISH	Jamy		Sheet No.	1 from 5	

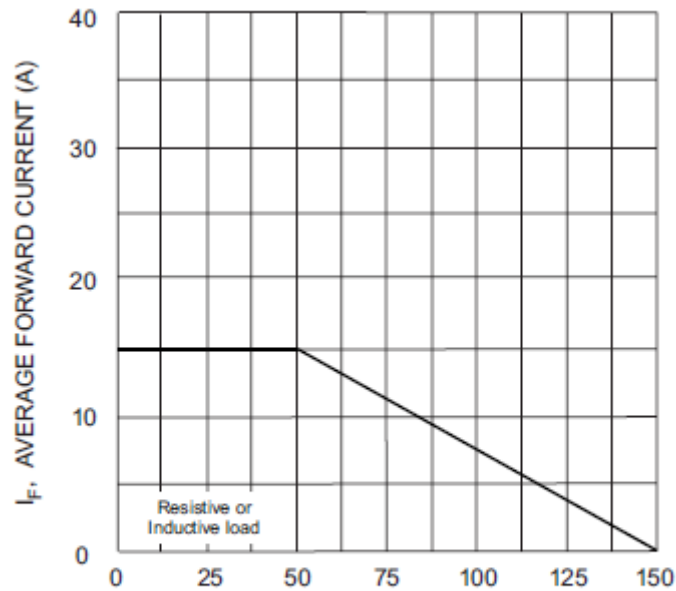
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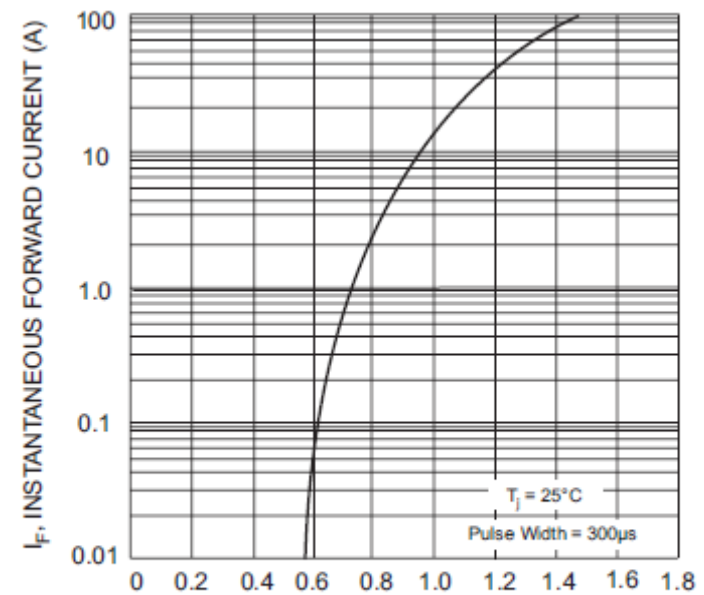
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Rating & Characteristics Curves (TA=25°C unless otherwise noted)



T_C, CASE TEMPERATURE (°C)
Fig. 1 Forward Current Derating Curve



V_F, INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 2 Typical Forward Characteristics (per element)

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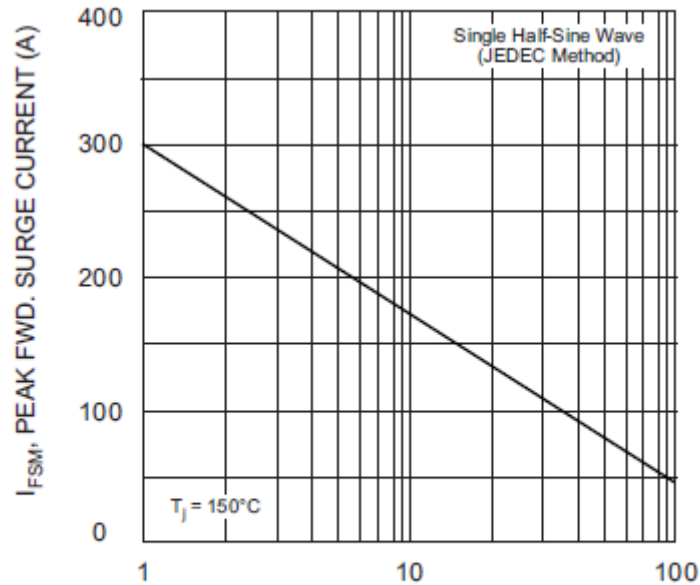


Fig. 3 Max Non-Repetitive Surge Current

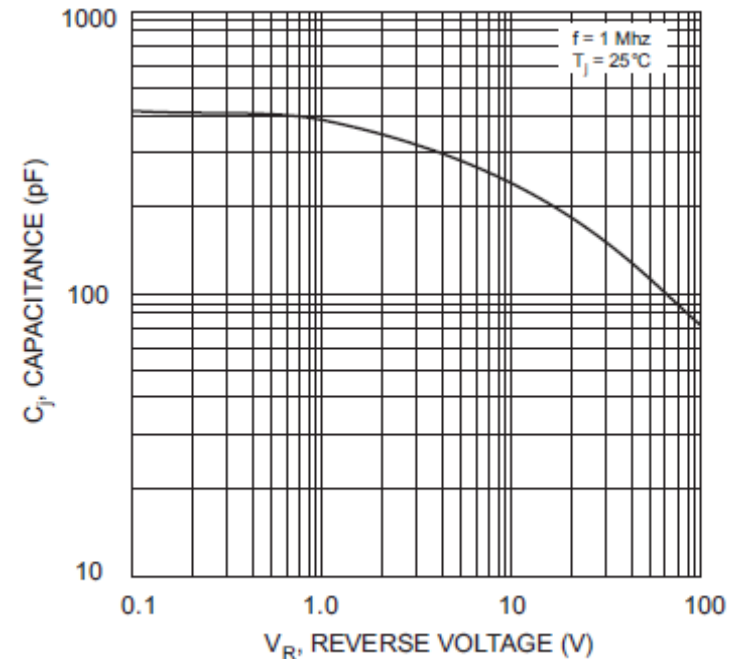


Fig. 4 Typical Junction Capacitance (per element)

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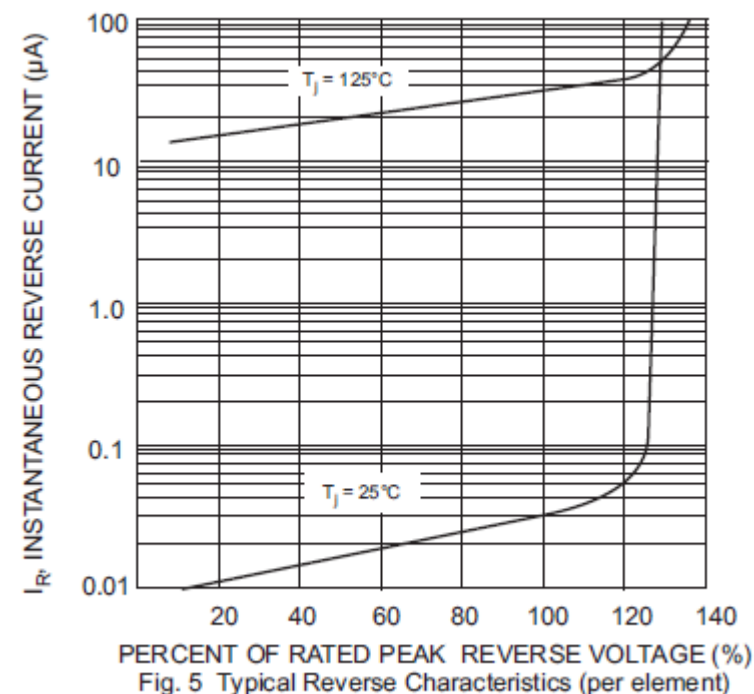
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Rating & Characteristics Curves (TA=25°C unless otherwise noted)



Ordering Informations

EDCON Serie	International Type	No function	ROHS	Package
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E16002	GBPC15xx	xx	R	BX
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Look Voltage Code Table		R= ROHS Conform	BX= Box Packing
		N= NON ROHS Conform	

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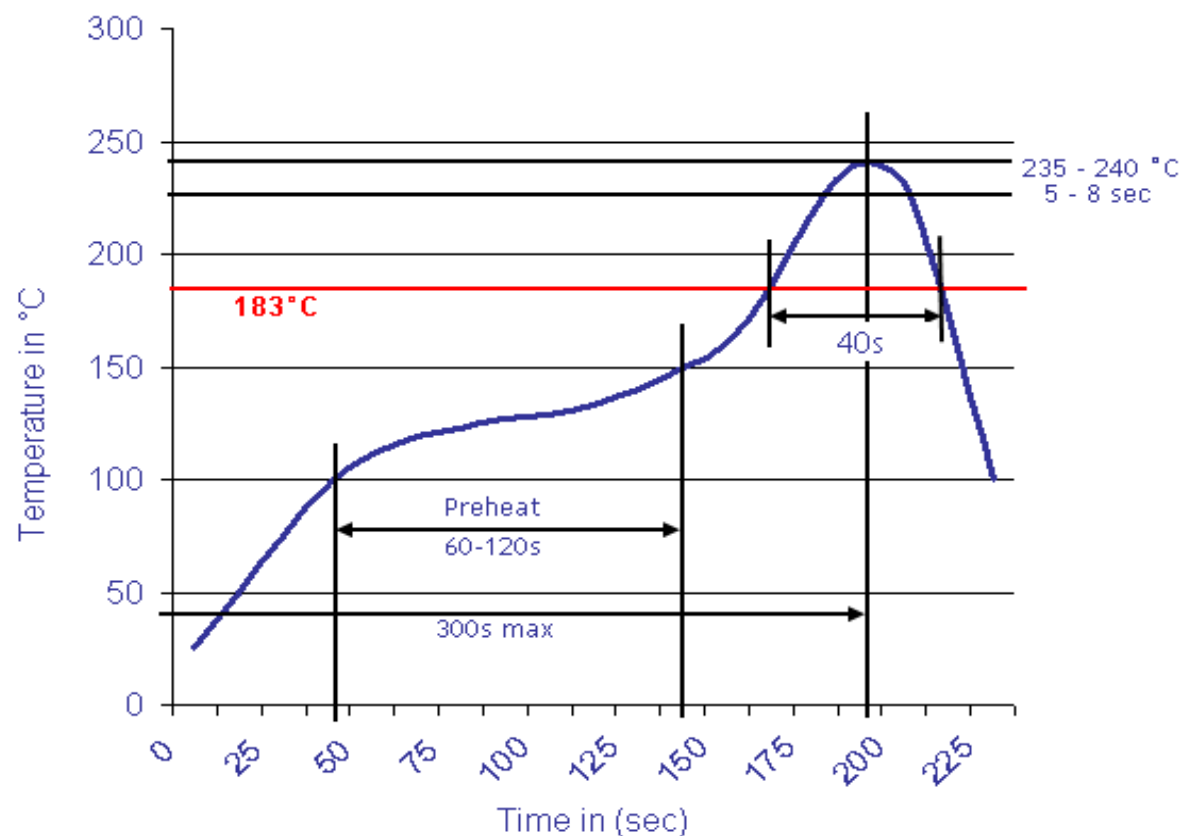
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Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)



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