

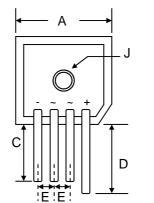
35A SINGLE-PHASE BRIDGE RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Designed for Saving Mounting Space
- Recognized File # E157705

Mechanical Data

- Case: KBPC-S, Molded Plastic with Heatsink Internally Mounted in the Bridge Encapsulation
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Mounting: Through Hole with #10 Screw
- Mounting Torque: 23 cm-kg (20 in-lbs) Max.
- Weight: 21 grams (approx.)
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



KBPC-S						
Dim	Min	Max				
Α	28.40	28.70				
В	10.97	11.23				
С	—	21.00				
D	—	25.00				
Е	5.10	—				
G	1.20 Ø Typical					
Н	3.05	3.60				
J	5.08 Ø Nominal					
All Dimensions in mm						



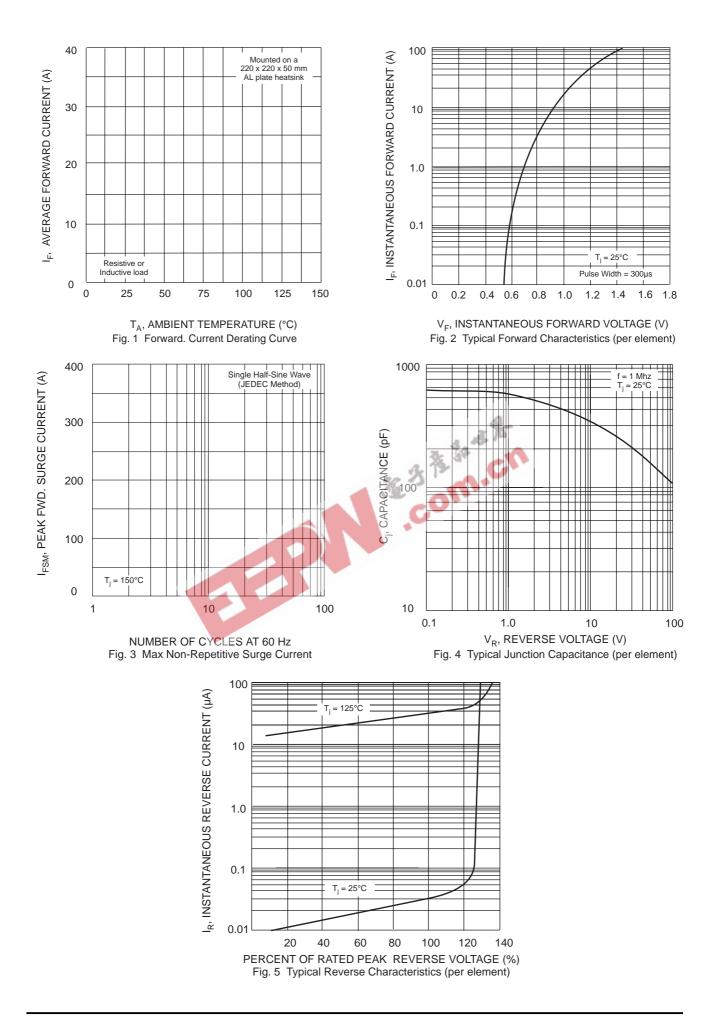
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

						KBD	0035					
Characteristic	Symbol								Unit			
		00S	01S	02S	04S	06S	08S	10S	12S	14S	16S	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	200	400	600	800	1000	1200	1400	1600	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	840	980	1120	V
Average Rectified Output Current $@T_A = 60^{\circ}C$	lo					3	5					А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	400						A				
Forward Voltage per leg $@I_F = 17.5A$	Vfm					1	.1					V
Peak Reverse Current $@T_c = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_c = 125^{\circ}C$	Iгм	10 500						μA				
I ² t Rating for Fusing (t < 8.3ms)	l ² t	664						A ² s				
Typical Junction Capacitance (Note 1)	Cj	400					pF					
Typical Thermal Resistance per leg (Note 2)	R∉JC	2.1						°C/W				
RMS Isolation Voltage from Case to Leads	Viso	2500						V				
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150						°C				

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

2. Thermal resistance junction to case, mounted on heatsink.



MARKING INFORMATION



WTE = Manufacturer's Logo KBPC35xxS = Device Number хх = 00, 01, 02, 04, 06, 08, 10, 12, 14 or 16 Polarity = As Marked on Body

PACKAGING INFORMATION

BULK

Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)		Gross Weight (KG)		
195 x 195 x 40	80	405 x 205 x 240 800		0	17.0		
Note: 1. Paper box, white or brown color.							

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
KBPC3500S	SIL Bridge	80 Units/Box
KBPC3501S	SIL Bridge	80 Units/Box
KBPC3502S	SIL Bridge	80 Units/Box
KBPC3504S	SIL Bridge	80 Units/Box
KBPC3506S	SIL Bridge	80 Units/Box
KBPC3508S	SIL Bridge	80 Units/Box
KBPC3510S	SIL Bridge	80 Units/Box
KBPC3512S	SIL Bridge	80 Units/Box
KBPC3514S	SIL Bridge	80 Units/Box
KBPC3516S	SIL Bridge	80 Units/Box

Shipping quantity given is for minimum packing quantity only. For minimum 1. order quantity, please consult the Sales Department.

2. To order Lead Free version (with Lead Free finish), add "-LF" suffix to part



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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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