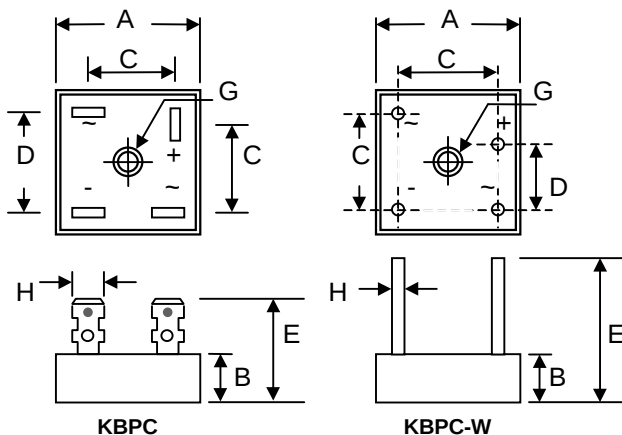


Features

- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Electrically Isolated Metal Case for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 2500V

Mechanical Data

- Case: KBPC (Metal Case with Faston Lugs) or KBPC-W (Metal Case with Wire Leads)
- Terminals: Plated Faston Lugs or Wire Leads, Add "W" Suffix to Indicate Wire Leads
- Polarity: As Marked on Case
- Mounting: Through Hole with #10 Screw
- Mounting Torque: 23 cm·kg (20 in·lbs) Max.
- Weight: 30 grams (KBPC); 28 grams (KBPC-W)
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version,**



	KBPC		KBPC-W	
Dim	Min	Max	Min	Max
A	27.94	28.96	27.94	28.96
B	10.97	11.23	10.97	11.23
C	15.50	17.60	17.10	19.10
D	17.50	18.50	10.90	11.90
E	22.86	25.40	30.50	—
G	Hole for #10 screw, 5.08Ø Nominal			
H	6.35 Typical		0.97Ø	1.07Ø
All Dimension 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%.

Characteristic	Symbol	KBPC35										Unit
		005	01	02	04	06	08	10	12	14	16	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	200	400	600	800	1000	1200	1400	1600	V
RMS Reverse Voltage	V _{R(RMS)}	35	70	140	280	420	560	700	840	980	1120	V
Average Rectified Output Current @T _A = 60°C	I _O	35										A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	400										A
Forward Voltage per leg @I _F = 17.5A	V _{FM}	1.2										V
Peak Reverse Current @T _C = 25°C At Rated DC Blocking Voltage @T _C = 125°C	I _{RM}	10 1.0										μA mA
I ² t Rating for Fusing (t < 8.3ms)	I ² t	664										A ² s
Typical Junction Capacitance (Note 1)	C _j	300										pF
Typical Thermal Resistance per leg (Note 2)	R _{θJC}	2.1										°C/W
RMS Isolation Voltage from Case to Leads	V _{ISO}	2500										V
Operating and Storage Temperature Range	T _J , T _{STG}	-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.

3. Screening Marking KBPC30XX is available for 35A spes

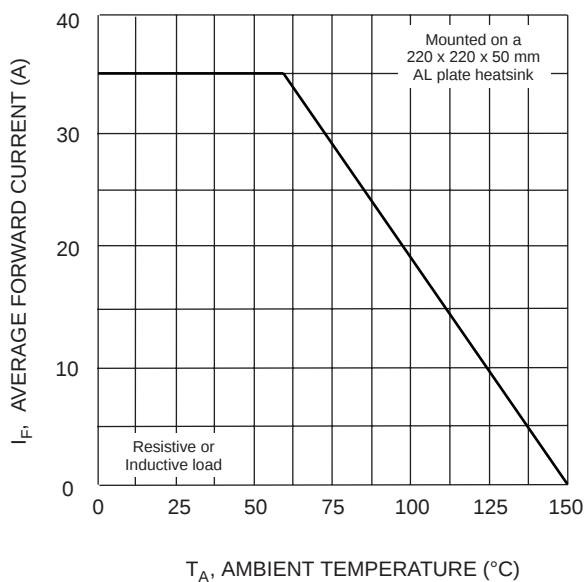


Fig. 1 Forward Current Derating Curve

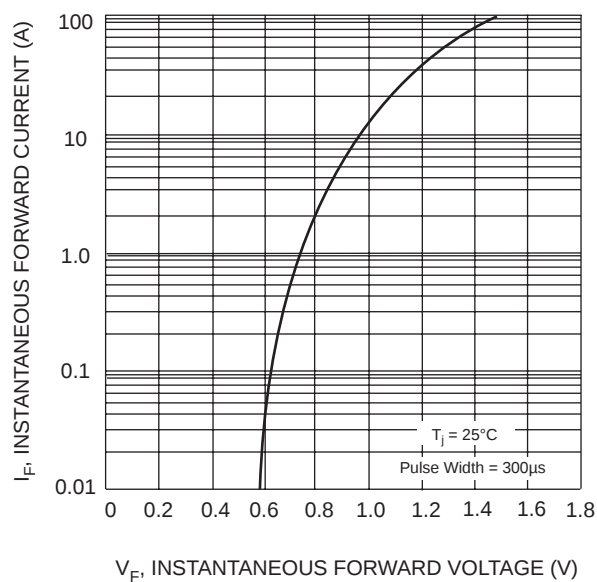


Fig. 2 Typical Forward Characteristics (per element)

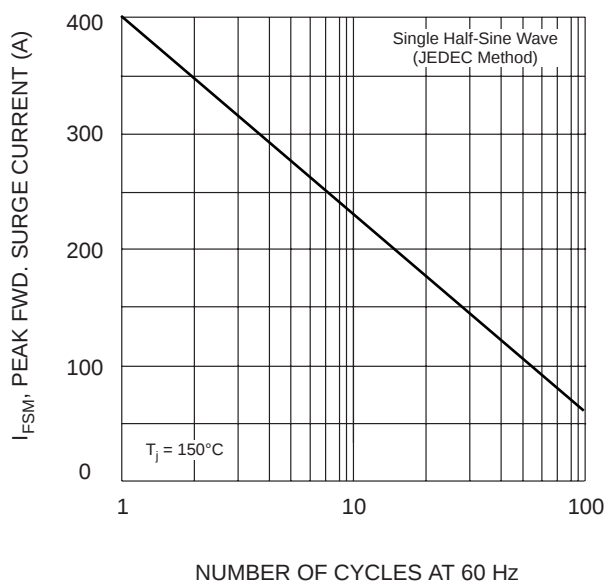


Fig. 3 Max Non-Repetitive Surge Current

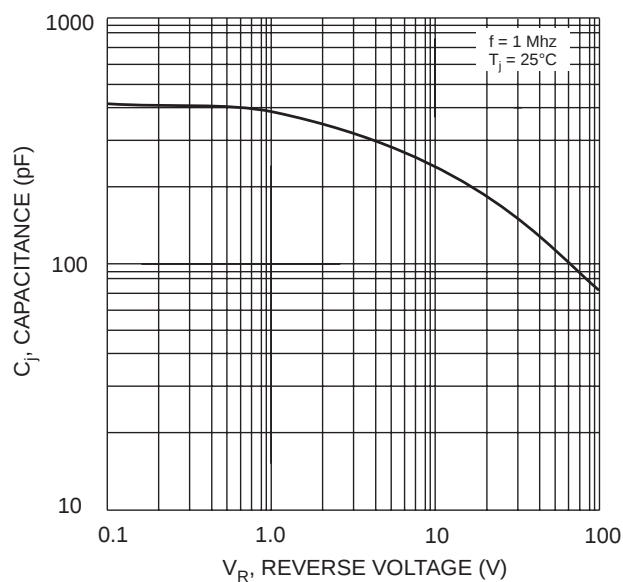


Fig. 4 Typical Junction Capacitance (per element)

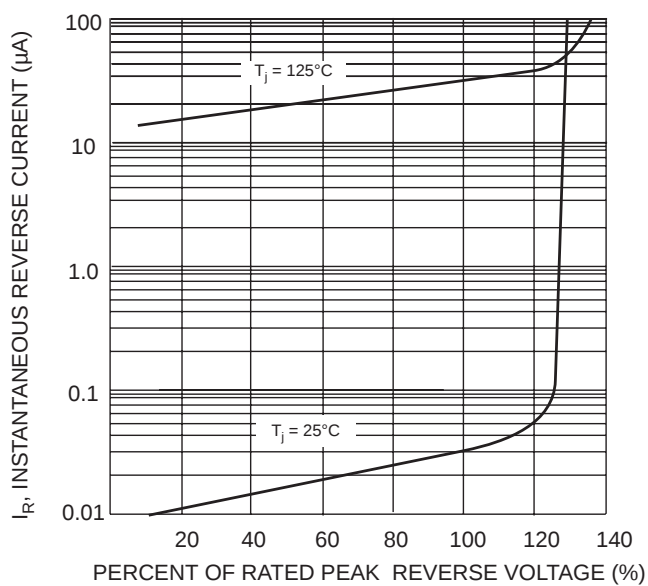


Fig. 5 Typical Reverse Characteristics (per element)



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DECLARATION

Hereby notify that the screening marking of KBPC35xx series 35A bridge rectifiers are as followings:

Part number	SPECIFICATION	Screening marking 1	Screening marking 2
KBPC35005	35A 50V KBPC package	LGE UL KBPC35005	LGE UL KBPC30005
KBPC3501	35A 100V KBPC package	LGE UL KBPC3501	LGE UL KBPC3001
KBPC3502	35A 200V KBPC package	LGE UL KBPC3502	LGE UL KBPC3002
KBPC3504	35A 400V KBPC package	LGE UL KBPC3504	LGE UL KBPC3004
KBPC3506	35A 600V KBPC package	LGE UL KBPC3506	LGE UL KBPC3006
KBPC3508	35A 800V KBPC package	LGE UL KBPC3508	LGE UL KBPC3008
KBPC3510	35A 1000V KBPC package	LGE UL KBPC3510	LGE UL KBPC3010

Please note marking 1 and marking 2 are all popular to use in LGE customers and clients, and their specification are totally same to use; Sometimes the different markings are up to different lot numbers; If you have any problems and questions, please let us know freely; we will take our responsibility for our declaration;

Your faithfully;

Date: Jan. 1st 2022

SHENZHEN LUGUANG ELECTRONIC TECHNOLOGY CO., LTD

Signature: