

KBPC300 THRU KBPC310

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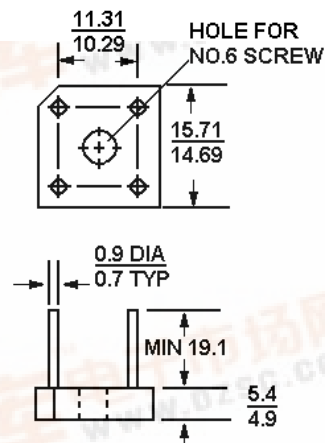
3.0A BRIDGE RECTIFIERS

Features

- Diffused junction
- High current capability
- High case dielectric strength
- High surge current capability
- Ideal for printed circuit board application
- Plastic material has underwriters laboratory flammability classification 94V-O

Mechanical Data

- **Case:** Molded Plastic
- **Terminals:** Plated leads solderable per MIL-STD-202, Method 208
- **Polarity:** Marked on body



Dimensions in mm

Absolute Maximum Ratings and Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load, For capacitive load, derate current by 20%.

	Symbols	KBPC 300	KBPC 301	KBPC 302	KBPC 304	KBPC 306	KBPC 308	KBPC 310	Units
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average rectified output current (note1) at $T_C = 50^\circ\text{C}$	I_O	3.0							A
Non-repetitive Peak forward surge current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	50							A
Maximum instantaneous forward voltage drop per leg at 1.5A	V_F	1.2							V
Maximum DC reverse current at rated DC blocking voltage per leg	I_R	$T_C = 25^\circ\text{C}$: 10 $T_C = 100^\circ\text{C}$: 1.0							μA mA
Rating for fusing ($t < 8.3\text{ms}$)(note 2)	I^2t	10							A^2s
Typical junction capacitance(note3)	C_j	55							pF
Typical thermal resistance per leg (note 4)	$R_{\theta JC}$	25							K/W
Operating junction and storage temperature range	T_J, T_{STG}	-65 to +125							$^\circ\text{C}$

Notes: 1. Mounted on metal chassis

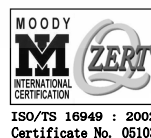
2. Non-repetitive, for $t > 1\text{ms}$ and $< 8.3\text{ms}$

3. Measured at 1.0MHz and applied reverse voltage of 4.0V.DC

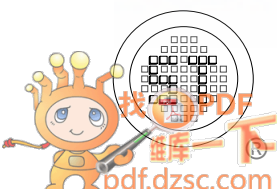
4. Thermal resistance junction to case per element

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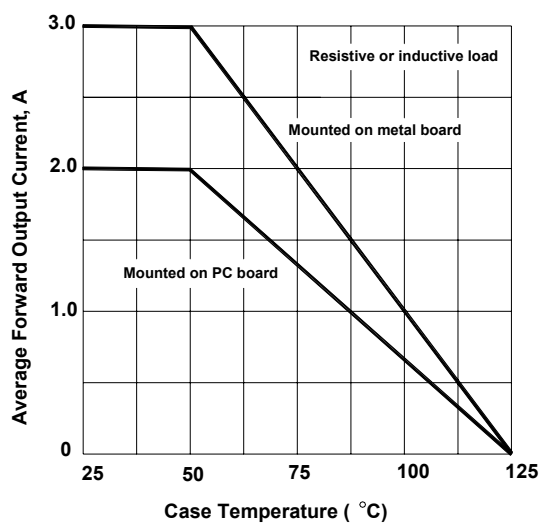
Dated: 19/04/2003



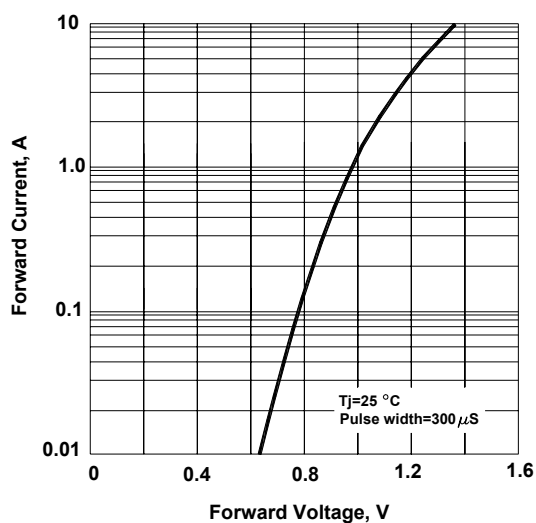
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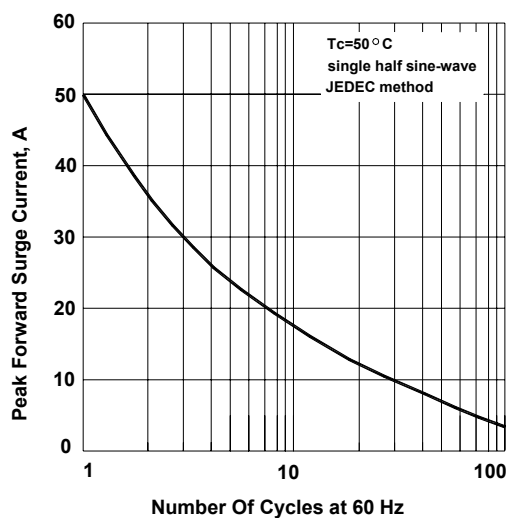
Forward Current Derating Curve



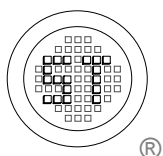
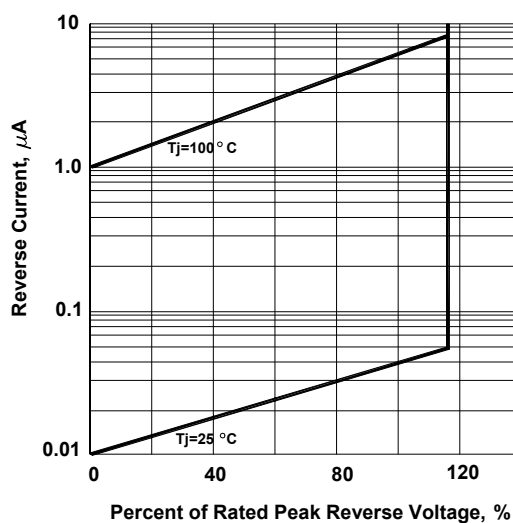
Typical Forward Characteristics, per element



Max Non-repetitive Peak Forward Surge Current

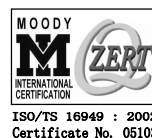


Typical Reverse Characteristics, per element



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ISO 9001 : 2000
Certificate No. 555-1999-02-101

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