

Silicon Bridge Rectifier

$V_{RRM} = 50\text{ V} - 1000\text{ V}$

$I_F = 50\text{ A}$

Features

- High efficiency
- Types up to 1000 V V_{RRM}
- Silicon junction
- Metal case

KBPC-T/W Package

Mechanical Data

Case: Mounted in the bridge encapsulation

Mounting position: Hole for #10 screw

Polarity: Marked on case



Maximum ratings, at $T_j = 25\text{ °C}$, unless otherwise specified (KBPCXXXXT uses KBPC-T package while KBPCXXXXW uses KBPC-W package)

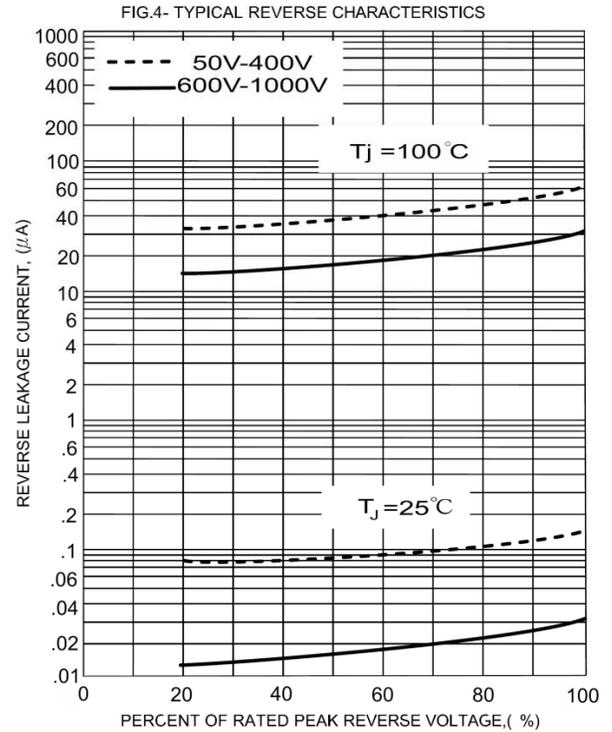
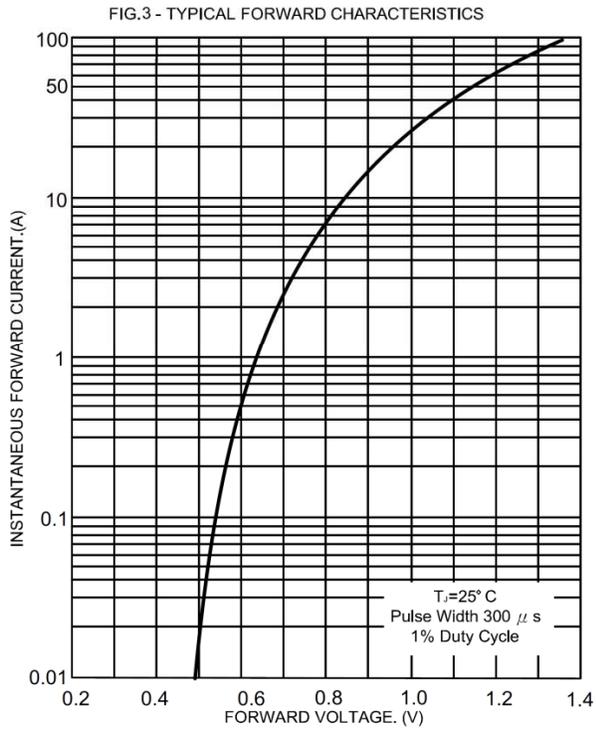
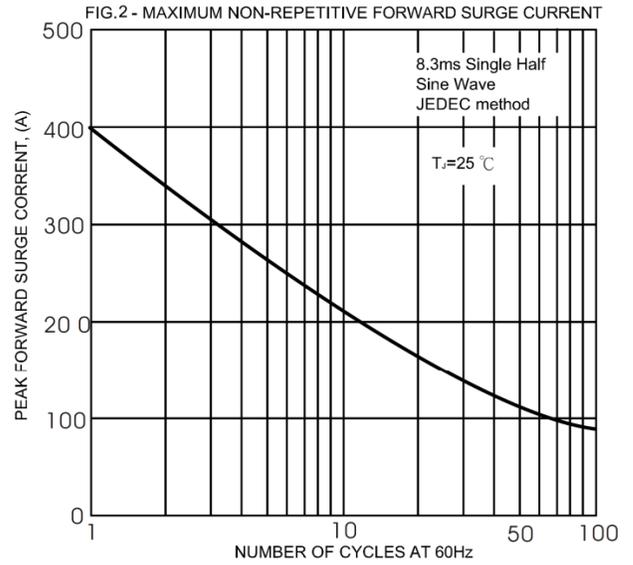
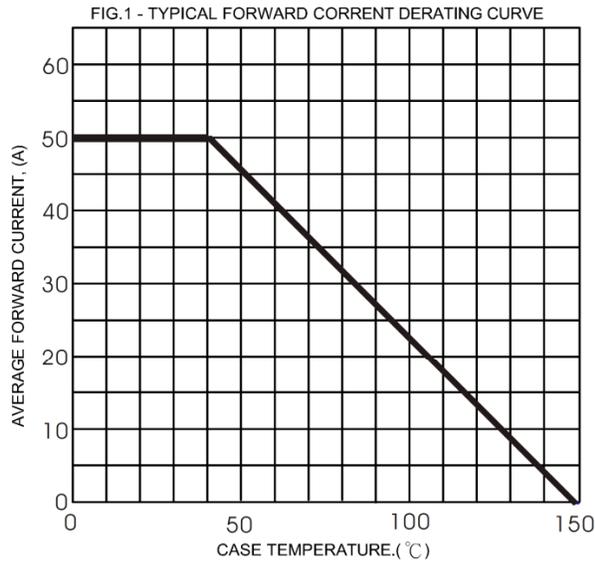
Parameter	Symbol	Conditions	KBPC5006T/W	KBPC5008T/W	KBPC5010T/W	Unit
Repetitive peak reverse voltage	V_{RRM}		600	800	1000	V
RMS reverse voltage	V_{RMS}		420	560	700	V
DC blocking voltage	V_{DC}		600	800	1000	V
Continuous forward current	I_F	$T_C \leq 40\text{ °C}$	50	50	50	A
Surge non-repetitive forward current, Half Sine Wave	$I_{F,SM}$	$T_C = 25\text{ °C}$, $t_p = 8.3\text{ ms}$	400	400	400	A
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	°C

Electrical characteristics, at $T_j = 25\text{ °C}$, unless otherwise specified

Parameter	Symbol	Conditions	KBPC5006T/W	KBPC5008T/W	KBPC5010T/W	Unit
Diode forward voltage	V_F	$I_F = 25\text{ A}$, $T_j = 25\text{ °C}$	1.1	1.1	1.1	V
Reverse current	I_R	$V_R = 50\text{ V}$, $T_j = 25\text{ °C}$ $V_R = 50\text{ V}$, $T_j = 100\text{ °C}$	5 500	5 500	5 500	μA

Thermal characteristics

Parameter	Symbol	Conditions	KBPC5006T/W	KBPC5008T/W	KBPC5010T/W	Unit
Thermal resistance, junction - case	R_{thJC}		2.5	2.5	2.5	°C/W



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