

KBPC10/15/25/35/50AW SERIES

SILICON BRIDGE RECTIFIERS

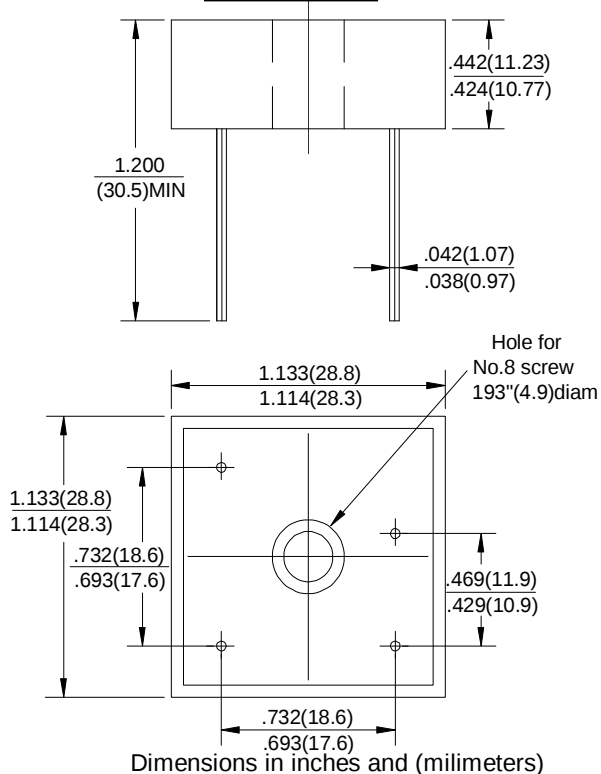
REVERSE VOLTAGE - 50 to 1000Volts

FORWARD CURRENT - 10/15/25/35/50 Amperes

FEATURES

- Surge overload -240~500 Amperes peak
- Low forward voltage drop
- Mounting Position : Any
- Electrically isolated base -2000 Volts
- Materials used carries U/L recognition

KBPC-W



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

For capacitive load current by 20%

CHARACTERISTICS	SYMBOL	KBPC-W		KBPC-W		KBPC-W		KBPC-W		KBPC-W		KBPC-W		UNIT		
		10005		1001		1002		1004		1006		1008			1010	
		15005		1501		1502		1504		1506		1508			1510	
		25005		2501		2502		2504		2506		2508			2510	
		35005		3501		3502		3504		3506		3508			3510	
		50005		5001		5002		5004		5006		5008			5010	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50		100		200		400		600		800		1000		V
Maximum RMS Bridge Input Voltage	V _{RMS}	35		70		140		280		420		560		700		V
Maximum Average Forward Rectified Output Current @T _c =55°C	I _(AV)	KBPC 10W	10	KBPC 15W	15	KBPC 25W	25	KBPC 35W	35	KBPC 50W	50	A				
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I _{FSM}		240		300		400		400		500	A				
Maximum Forward Voltage Drop Per Element at 5.0/7.5/12.5/17.5/25.0A Peak	V _F	1.1												V		
Maximum Reverse Current at Rate DC Blocking Voltage Per Element @T _J =25°C	I _R	10												µA		
Operating Temperature Range	T _J	-55 to +150												°C		
Storage Temperature Range	T _{STG}	-55 to +150												°C		

FIG.1-MAXIMUM FORWARD SURGE CURRENT

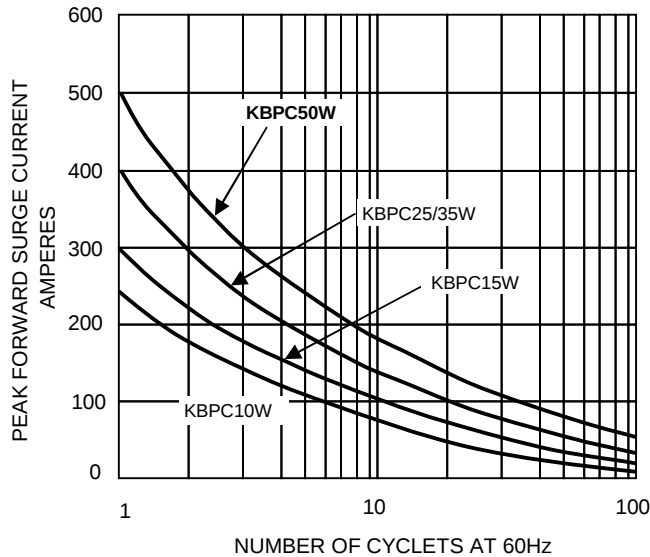


FIG.2- DERATING CURVE
OUTPUT RECTIFIED CURRENT

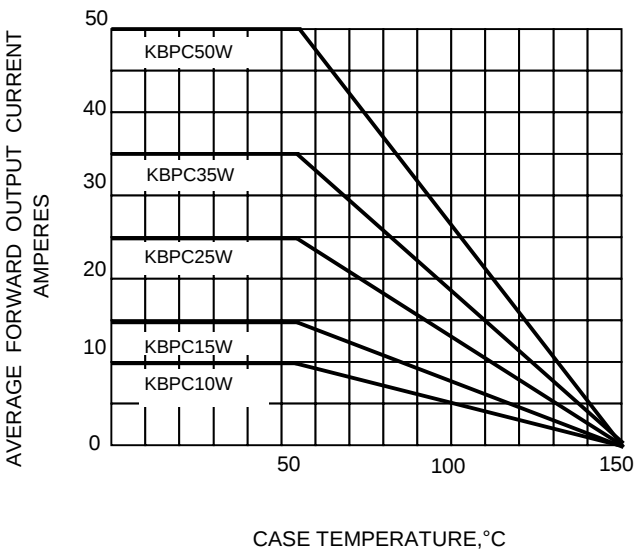


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

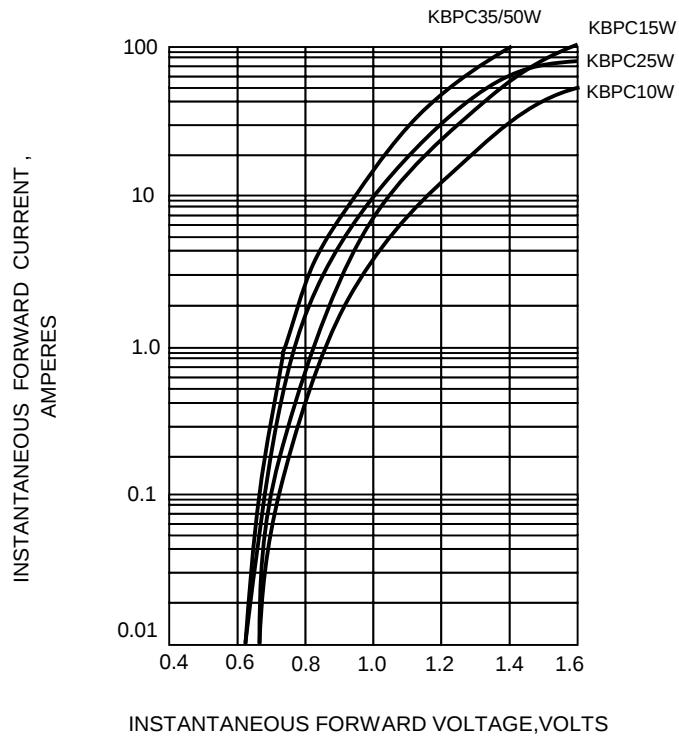


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

