

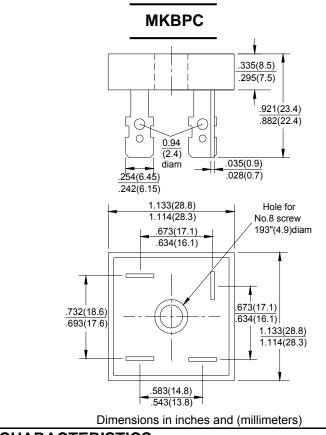
# MKBPC10/15/25/35/50A SERIES

### SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000 Volts
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
- Solderable 0.25" FAST ON terminals
- Materials used carries U/L recognition



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Resistive or inductive load 60Hz.

For capacitive load current by 20%

CHARACTERISTICS		MKBPC		MKBPC	MKB	РС	MKBPC		MKBPC	MKBPC		MKBPC	
	SYMBOL	10005		1001	100	2	1004		1006	1008		1010	
		15005		1501	150	2	1504		1506	1508		1510	
		25005		2501	250	2502 25		04	2506	25	08	2510	UNIT
		35005		3501	3502		3504		3506	3506 350		3508 3510	
		50005		5001	500	2	5004		5006	5008		5010	
Maximum Recurrent Peak Reverse Voltage	VRRM	50		100	20	)	400		600	800		1000	V
Maximum RMS Bridge Input Voltage	VRMS	35		70	14	)	280		420	560		700	V
Maximum Average Forward	I(AV)	M KBPC			1.			25 400	M KBPC	05	М		_
Rectified Output Current @Tc=55℃			1	0 M KBPC	15	- 1	M BPC			00	KBF	.   50	Α
Peak Forward Surge Current		10		15		- 1	25			400	50	)	
8.3ms Single Half Sine-Wave	Iгsм		240	0	300							500	Α
Super Imposed on Rated Load													
Maximum Forward Voltage Drop	VF 1.1										V		
Per Element at 5.0/7.5/12.5/17.5/25.0A Peak	VF   1.1												V
Maximum Reverse Current at Rated	l <sub>R</sub>	10											
DC Blocking Voltage Per Element @TJ=25℃	IK IU												μA
Operating Temperature Range	TJ	-55 to +150											
Storage Temperature Range	Tstg	-55 to +150											$^{\circ}\!\mathbb{C}$

NOTES: Also available on KBPC 10W/15W/25W/35W/50W series.

Rev. 7, 16-Mar-2017



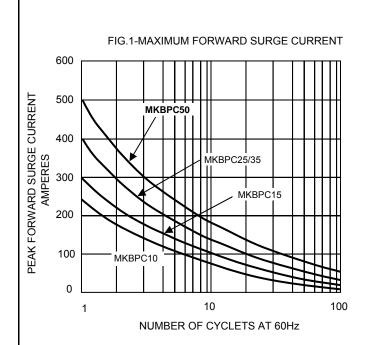
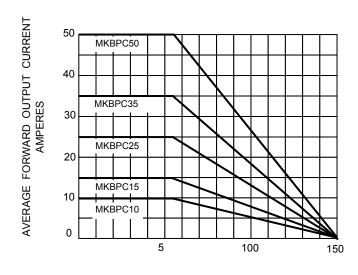
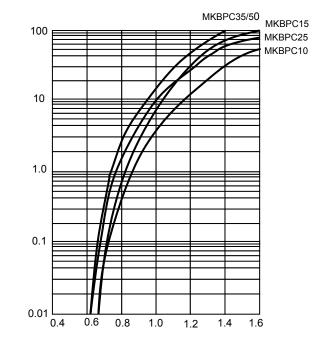


FIG.2- DERATING CURVE OUTPUT RECTIFIED CURRENT



CASE TEMPERATURE,°C

FIG.3-TYPICAL FORWARD CHARACTERISTICS

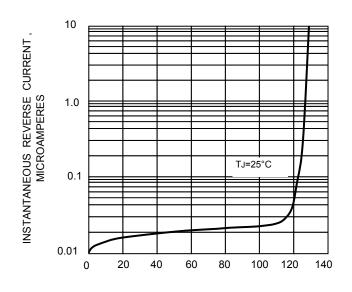


INSTANTANEOUS FORWARD VOLTAGE, VOLTS

INSTANTANEOUS FORWARD CURRENT

**AMPERES** 

FIG.4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLTAGE

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

Rev. 7, 16-Mar-2017



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