

# MSKSEMI 美森科

SEMICONDUCTOR



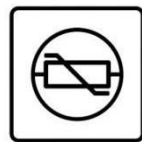
ESD



TVS



TSS



MOV



GDT



PLED

## KBL8005-MS THRU KBL810-MS

Product specification

**VOLTAGE RANGE: 50 - 1000V**  
**CURRENT: 8.0 A**

**FEATURES**

- This series is UL listed under the Recognized Component Index, file number E142814
- Ideal for printed circuit board mounting
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High temperature soldering guaranteed 265 / 10 seconds at 5 lbs (2.3kg) tension

**MECHANICAL DATA**

- Case: Reliable low cost construction utilizing molded plastic technique
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Mounting Position: Any
- Weight: 0.2 ounce, 5.6 grams (approx)

**REFERENCE NEWS**



**Marking**

KBL8005-MS	KBL801-MS	KBL802-MS	KBL804-MS
KBL806-MS	KBL808-MS	KBL810-MS	

## Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.

For Capacitive load derate current by 20%.

Parameter	Symbol	KBL8005 -MS	KBL801 -MS	KBL802 -MS	KBL804 -MS	KBL806 -MS	KBL808 -MS	KBL810 -MS	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at TA=50 C	IF(AV)	8.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	200							A
Rating for fusing ( t<8.3ms)	I <sup>2</sup> t	166							A <sup>2</sup> sec
Typical thermal resistance per element (1)	ReJA	10.0							°C/W
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150							°C

## Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.

For Capacitive load derate by 20 %.

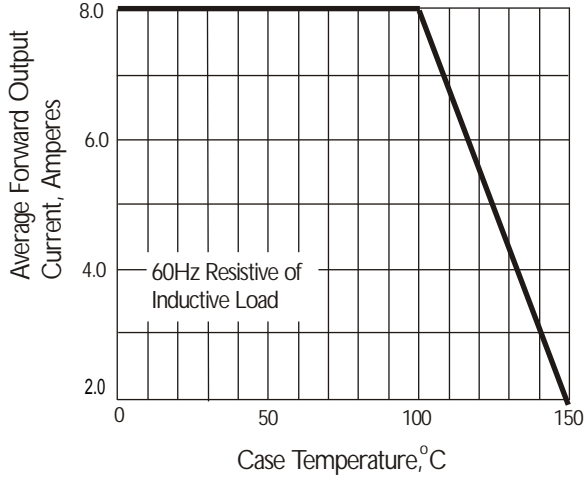
Parameter	Symbol	KBL8005 -MS	KBL801 -MS	KBL802 -MS	KBL804 -MS	KBL806 -MS	KBL808 -MS	KBL810 -MS	Unit
Maximum instantaneous forward voltage drop per leg at 4.0A	VF	1.1							V
Maximum DC reverse current at rated TA =25°C DC blocking voltage per element TA =125°C	IR	10 1000							μA

**Notes:** (1)Thermal resistance from Junction to Ambient on P.C.board mounting.

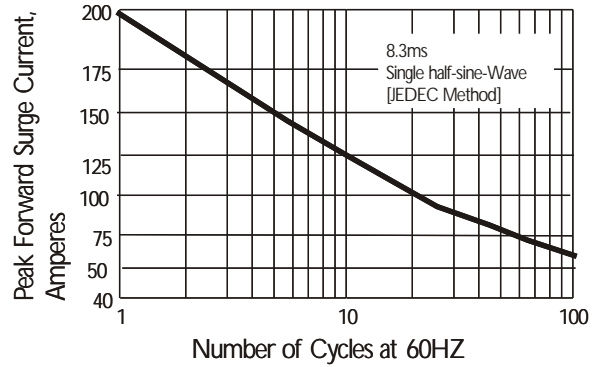
**Rating and Characteristic Curves ( TA=25**

Unless otherwise noted )

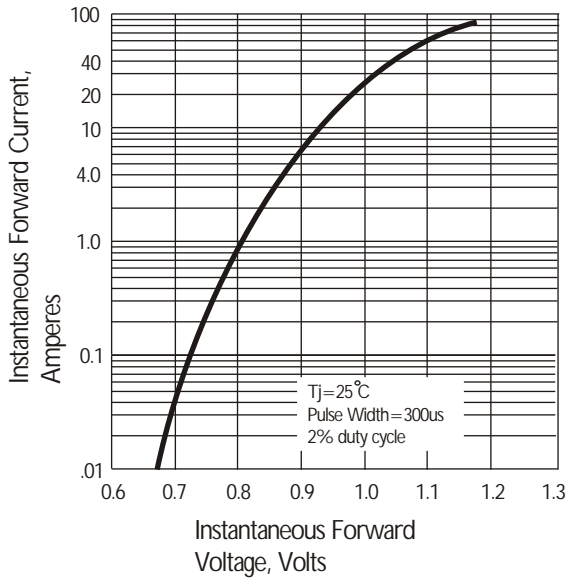
**Fig. 1 Derating Curve for Output Rectified Current**



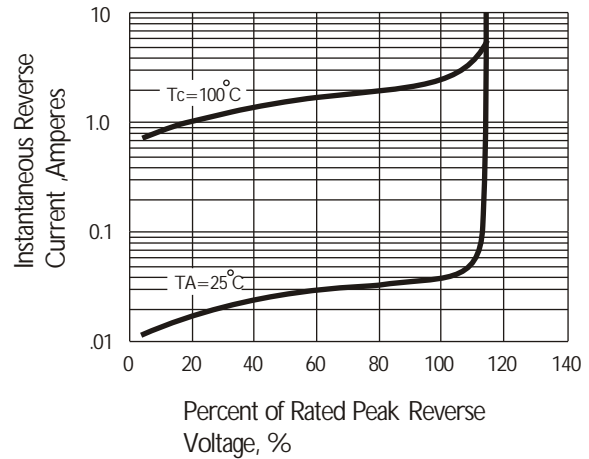
**Fig. 2 Maximum Non-repetitive Peak Forward Surge Current**



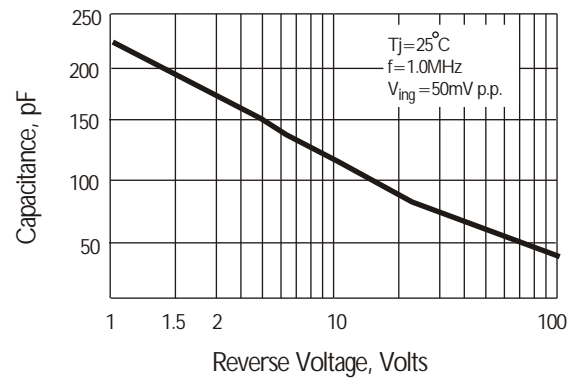
**Fig. 3 Typical Instantaneous Forward Characteristics**



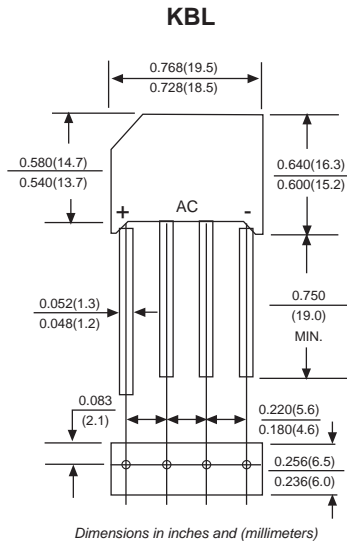
**Fig. 4 Typical Reverse Characteristics**



**Fig. 5 Typical Junction Capacitance**



**PACKAGE MECHANICAL DATA**



**REEL SPECIFICATION**

P/N	PKG	QTY
KBL8005-MS THRU KBL810-MS	KBL	500

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