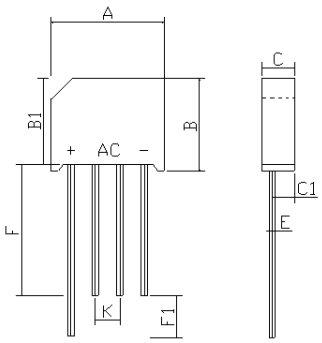
KBL8005-KBL810

Silicon Bridge Rectifiers

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



KBL		
Dim	Min	Max
A	18.85	19.25
B	15.70	16.10
B1	14.65	15.05
C	5.90	6.30
C1	3.95	4.25
E	Ø1.20	Ø1.40
F	19.00min	
F1	4.00min	
K	4.70	5.30
All Dimensions in mm		

Features

- ◇ Rating to 1000V PRV
- ◇ Surge overload rating to 150 Amperes peak
- ◇ Ideal for printed circuit board
- ◇ Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- ◇ Lead solderable per MIL-STD-202 method 208

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase,half wave,60 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		KBL8005	KBL801	KBL802	KBL804	KBL806	KBL808	KBL810	UNITS
Maximum recurrent 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
Maximum average forw ard output current @T_A=25℃	$I_{F(AV)}$	8.0							A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load	I_{FSM}	200							A
I²t Rating for fusing @Tj=25℃	I²t	66							A²S
Typical Junction Capacitance	CJ	400							pF
Maximum instantaneous forw ard voltage @ 4.0 A	V_F	1.0							V
Maximum reverse current @T_A=25℃	I_R	10.0							μA
at rated DC blocking voltage @T_A=100℃		1.0							mA
Typical thermal resistance per leg	$R_{\Theta JA}$	13							°C/W
	$R_{\Theta JC}$	7.5							
Operating junction temperature range	T_J	- 55 ---- + 150							℃
Storage temperature range	T_{STG}	- 55 ---- + 150							℃

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Ratings AND Charactieristic Curves

(TA=25℃ unless otherwise noted)

F IG.1FORWARD CURRENT DREATING CURVE

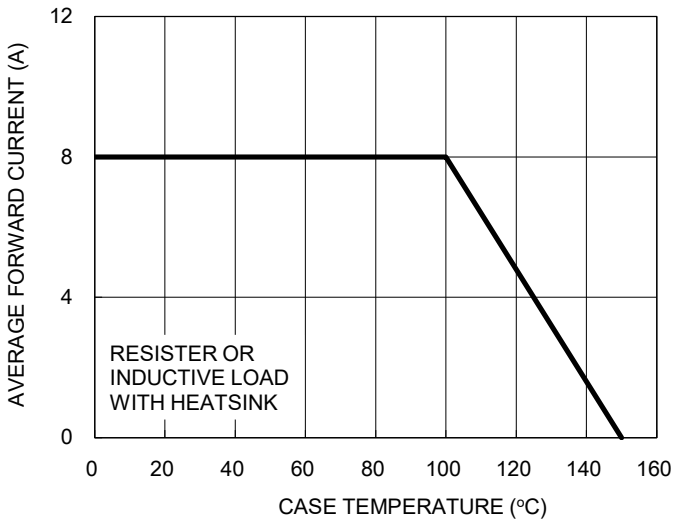

FIG. 2 TYPICAL REVERSE CHARACTERISTICS

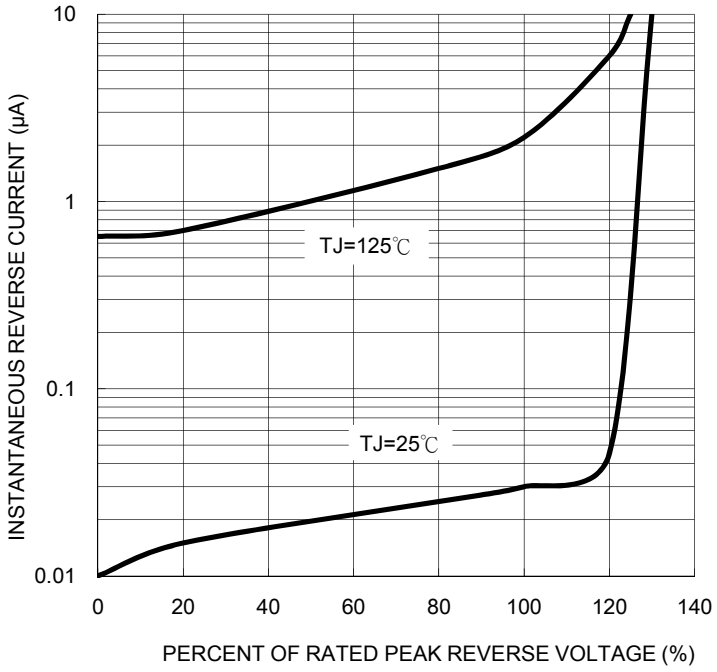

FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

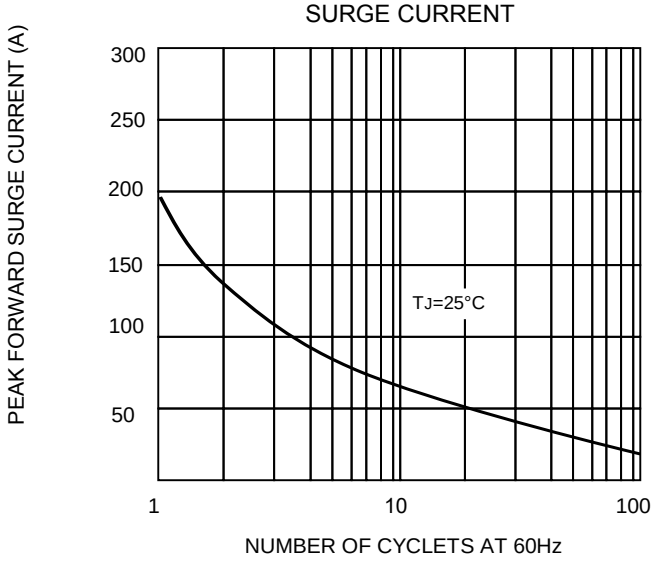

FIG. 4 TYPICAL FORWARD CHARACTERISTICS