

KBL401 THRU KBL410

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 4.0 Amperes

FEATURES

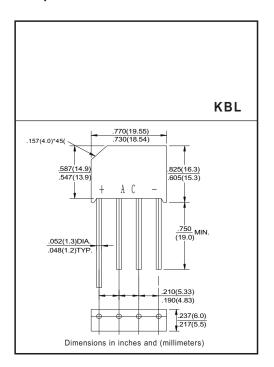
- * Silver-plated copper leads
- * Surge overload rating: 125 amperes peak
- * Low leakage
- * Mounting position: Any
- * Low forward voltage

MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. resistive or inductive load.



MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	KBL401	KBL402	KBL403	KBL404	KBL406	KBL408	KBL410	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _A = 50°C	I ₀	4.0				Amps			
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	125				Amps			
Current Squared Time	I^2T	65				A ² S			
Tunical Thornal Desistance (Note 4)	R _θ JC	22							°C/W
Typical Thermal Resistance (Note 1)	R _θ JA	28							
Operating and Storage Temperature Range	T _J , T _{STG}	G -55 to + 150				۰c			

$\textbf{ELECTRICAL CHARACTERISTICS}(@T_A=25~^{\circ}\text{C unless otherwise noted})$

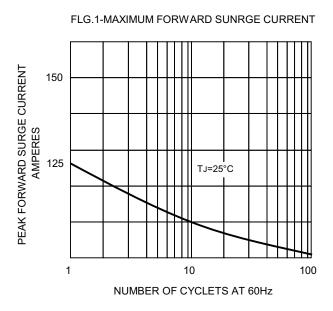
CHARACTERISTICS		SYMBOL	KBL401	KBL402	KBL403	KBL404	KBL406	KBL408	KBL410	UNITS
Maximum Instantaneous Forward Voltage at 4.0A DC		V _F	1.1							Volts
Maximum DC Reverse Current @TA = 25°C		la	10							
at Rated DC Blocking Voltage	@T _A = 150°C	IR IR	1000						uAmps	

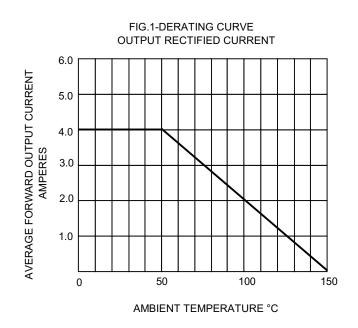
NOTES: 1. Thermal Resistance: Heat-sink case mounted or if PCB mounted.

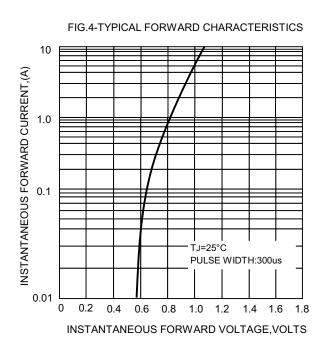
- 2. "ROHS compliant"
- 3. Measureed at 1MHz and applied reverse voltage of 4.0 volts.

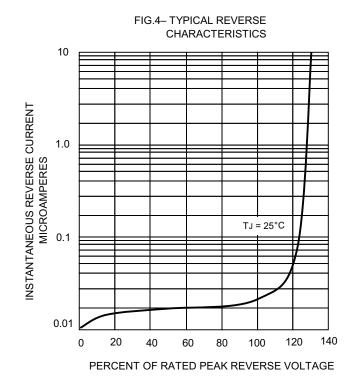
2020-04/10 REV:A

RATING AND CHARACTERISTICS CURVES (KBL401 THRU KBL410)



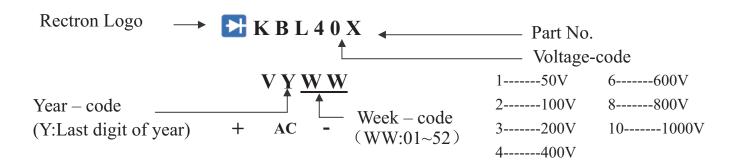








Marking Description





PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	
KBL	-C	1,150	49*14.5*13.2	49.5*32.5*15.5	2,300	



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