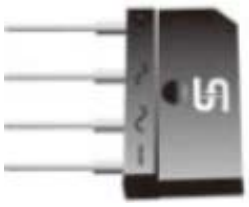
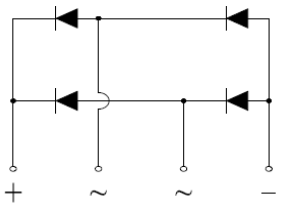
Glass Passivated Single-Phase Bridge Rectifiers

FEATURES

- UL Recognized File # E-326243
- Thin Single in-line low profile package ideal for compact required circuit
- Glass passivated junction
- High surge current capability
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition



KBJL



MECHANICAL DATA

Case：KBJL

Molding compound, UL flammability classification rating 94V-0
Base P/N with suffix "G" on packing code - halogen-free, RoHS compliant

Terminal：Matte tin plated leads, solderable per JESD22-B102
Meet JESD 201 class 1A whisker test

Polarity：As marked

Mounting torque：5 in-lbs maximum

Weight：2.5 gram (approximately)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERSTICS (T_A=25℃ unless otherwise noted)					
PARAMETER	SYMBOL	TS10KL60	TS10KL80	TS10KL100	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	600	800	1000	V
Maximum RMS voltage	V_{RMS}	420	560	700	V
Maximum DC blocking voltage	V_{DC}	600	800	1000	V
Maximum average forward rectified current	$I_{F(AV)}$	10			A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	180			A
Rating of fusing (t<8.3ms)	I^2T	134			A^2S
Maximum Instantaneous Forward Voltage (Note 1) IF= 5 A	V_F	1.0			V
Maximum reverse current @ rated VR T_A=25 ℃ T_A=100 ℃	I_R	5 150			μA
Typical thermal resistance (Note 2)	$R_{\theta JC}$	11.3			$^OC/W$
Operating junction temperature range	T_J	- 55 to + 150			^OC
Storage temperature range	T_{STG}	- 55 to + 150			^OC

Note 1：Pulse test with PW=300u sec, 1% duty cycle

Note 2：Mount on Heatsink size of 3" x 5" x 0.25" Al-Plate

ORDERING INFORMATION				
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
TS10KLXX (Note 1)	T1	Suffix "G"	KBJL	48 / Tray
	C0		KBJL	20 / Tube

Note 1: "xx" defines voltage from 600V (TS10KL60) to 1000V (TS10KL80)

EXAMPLE				
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
TS10KL80 C0	TS10KL80	C0		
TS10KL80 C0G	TS10KL80	C0	G	Green compound

RATINGS AND CHARACTERISTICS CURVES

(TA=25℃ unless otherwise noted)

FIG.1 FORWARD CURRENT DERATING CURVE PER DEVICE

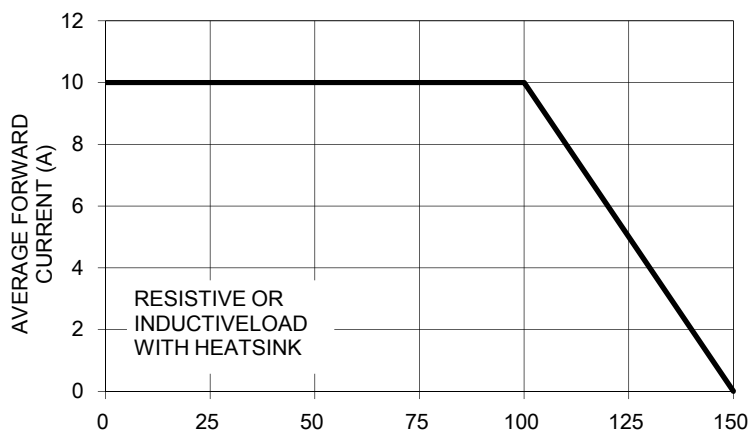


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

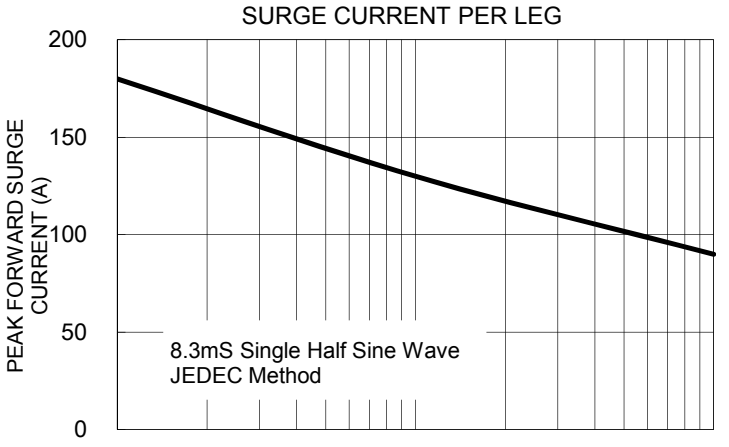


FIG. 3- TYPICAL FORWARD CHARACTERISTICS PER LEG

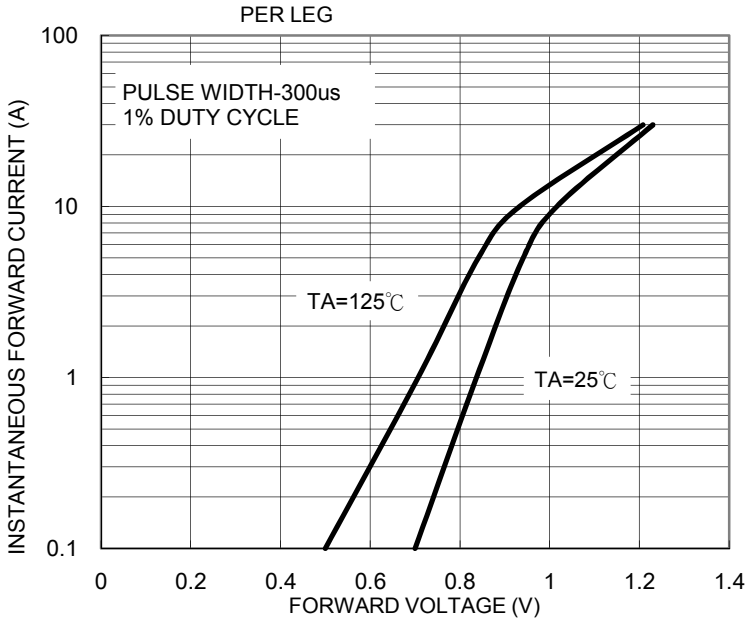


FIG. 4- TYPICAL REVERSE CHARACTERISTICS PER LEG

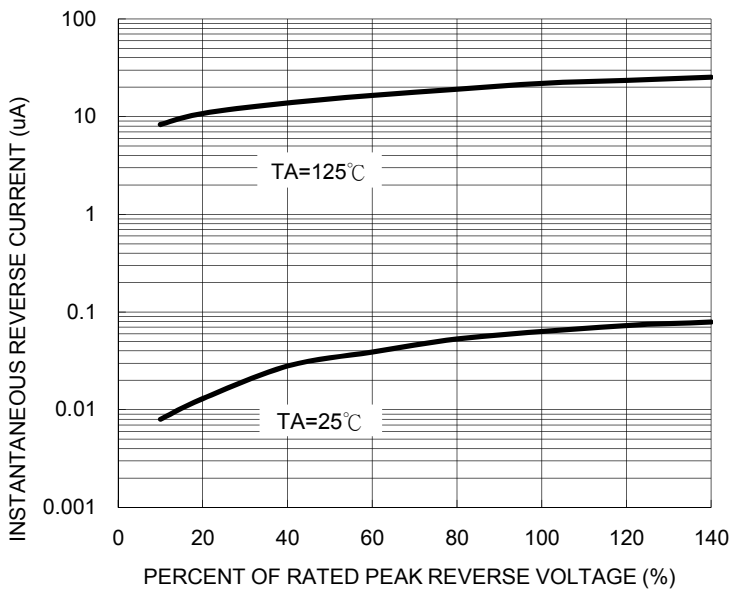
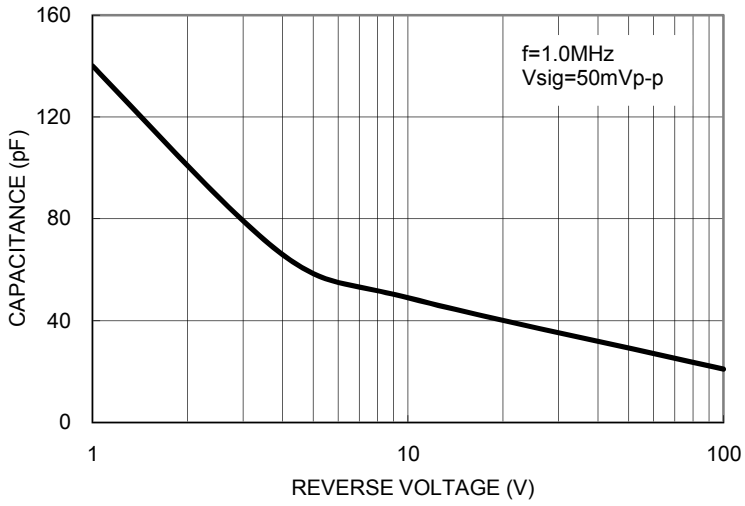
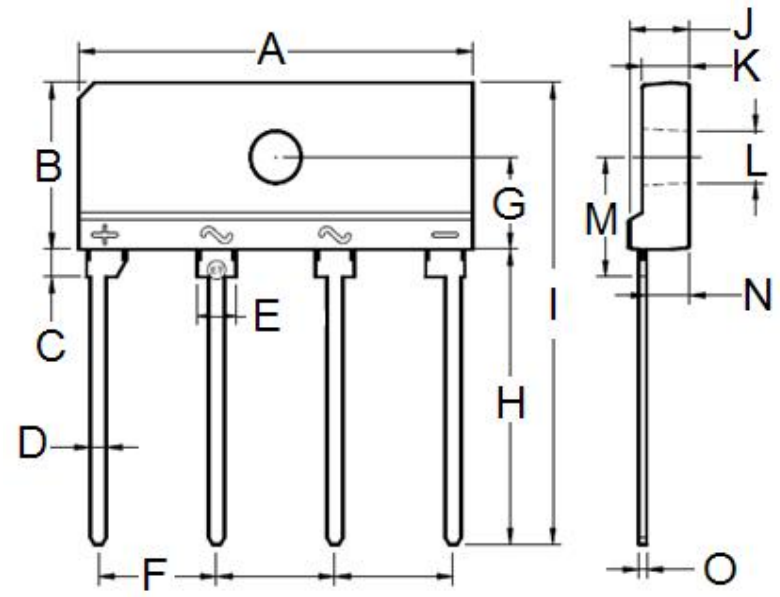


FIG. 5- TYPICAL JUNCTION CAPACITANCE PER LEG

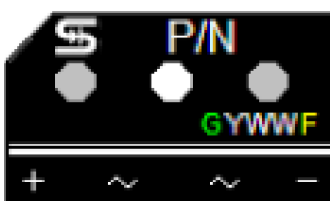


PACKAGE OUTLINE DIMENSIONS



DIM.	Unit(mm)		Unit(inch)	
	Min	Max	Min	Max
A	24.70	25.30	0.972	0.996
B	10.00	10.60	0.394	0.417
C	1.70		0.067	
D	0.90	1.10	0.035	0.043
E	2.30	2.70	0.091	0.106
F	7.30	7.70	0.287	0.303
G	5.50	5.90	0.217	0.232
H	17.70	18.70	0.697	0.736
I	28.50		1.122	
J	3.60	4.00	0.142	0.157
K	2.80	3.20	0.110	0.126
L	3.10	3.40	0.122	0.134
M	7.20	7.60	0.283	0.299
N	2.50	2.90	0.098	0.114
O	0.30	0.70	0.012	0.028

MARKING DIAGRAM



P/N = Specific Device Code
G = Green Compound
YWW = Date Code
F = Factory Code