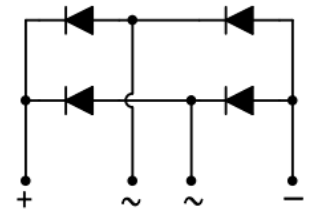
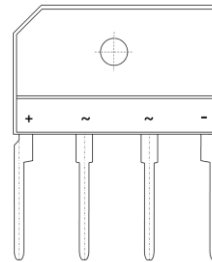


FEATURES AND BENEFITS

Product Summary		
V_{RRM}	1000V	@25 °C
I_F	15.0A	@25 °C
V_F	1.1V	@ $I_F=7.5A$
I_R	10.0uA	@25 °C

- Glass passivated die construction
- Low forward voltage drop
- High surge current capability
- RoHS Compliant / Green EMC UL Flammability Classification Rating 94V-0
- Matte Tin (Sn) Lead finish Solderable per MIL-STD-202, Method 208
- Weight: 4.1 grams (Approximate)

KBJ



Maximum Ratings (TA = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	KBJ 1506	KBJ 1508	KBJ 1510	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	600	800	1000	V
DC Blocking Voltage	V_{DC}	600	800	1000	V
RMS Reverse Voltage	V_{RMS}	420	560	700	V
Average Rectified Output Current	$I_{F(AV)}$	15.0			A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	220			A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	201			A ² s
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150			°C

THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance from Junction to Case (Note 1)	R _{θJC}	3.0	°C/W

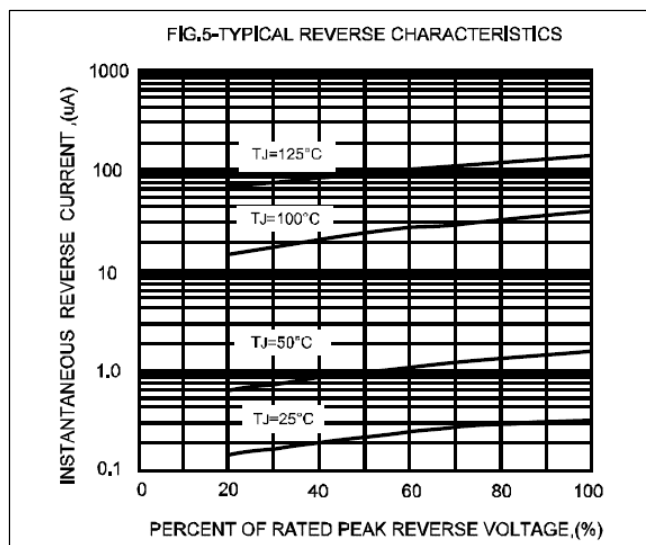
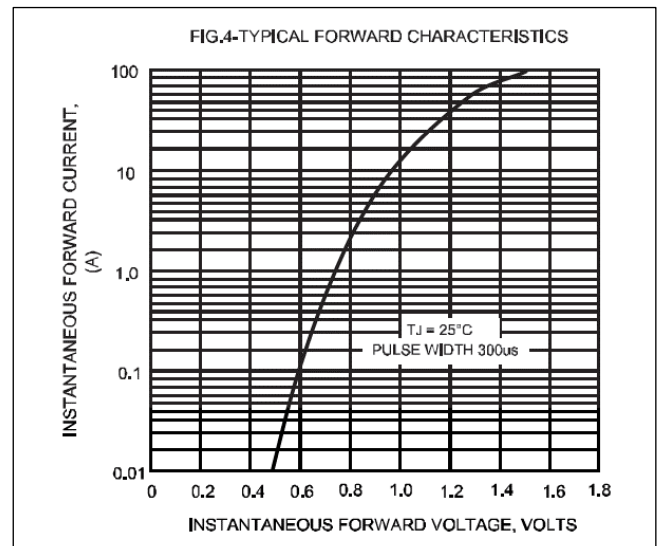
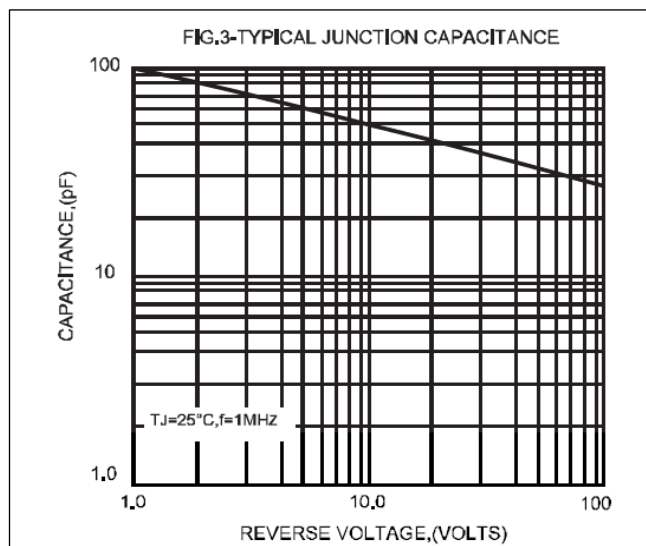
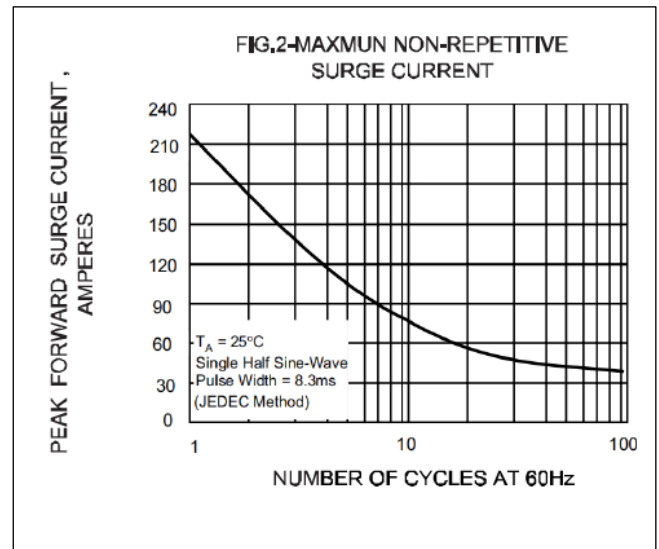
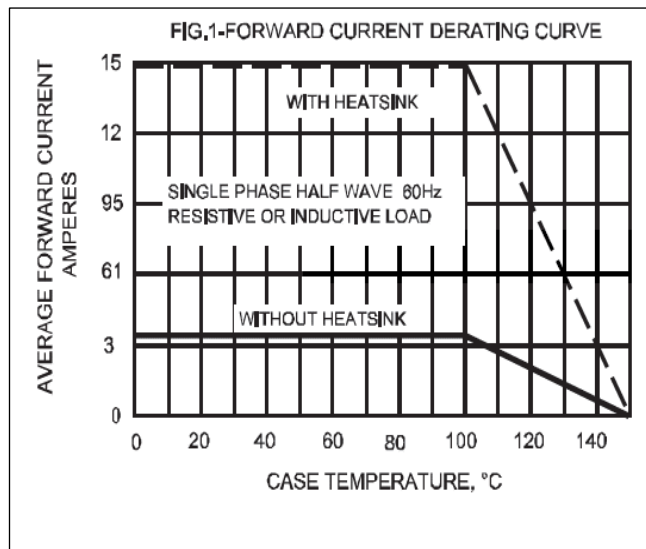
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Forward Voltage I _F =7.5A	V _F	1.10	V
Peak Reverse Current @ T _A =25°C	I _R	10.0	uA
At Rated DC Blocking Voltage @ T _A =125°C		500	
Typical Total Capacitance (Note 2)	C _T	100.0	pF

Note:

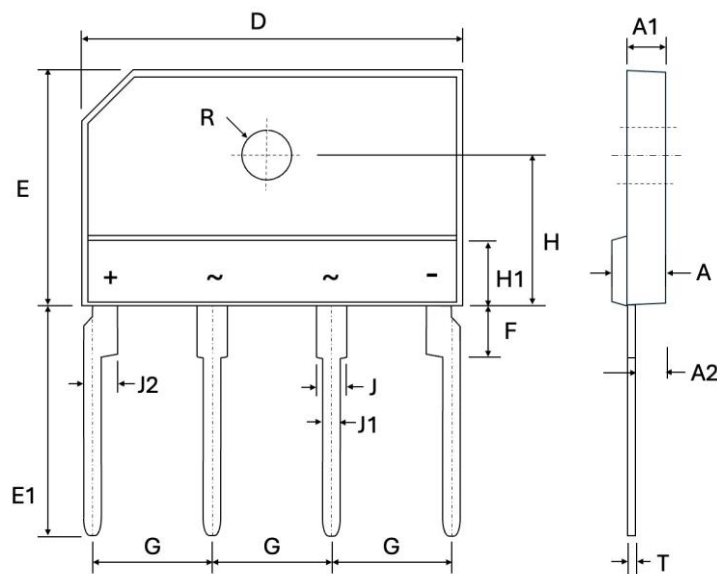
1. Device mounted on 50mm x 50mm x 1.6mm Cu Plate Heatsink
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C

RATING AND CHARACTERISTICS CURVES



PACKAGE OUTLINE DIMENSIONS

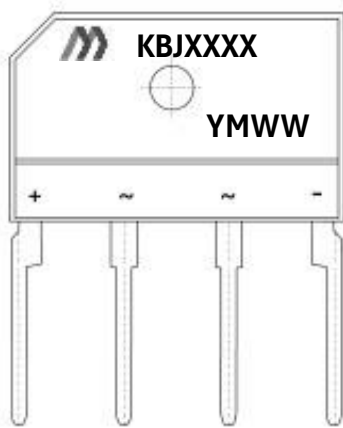
KBJ



Symbol	MIN	MAX
A	4.30	4.90
A1	3.10	3.70
A2	2.40	2.80
D	24.80	25.20
E	14.70	15.30
E1	16.40	17.00
F	3.40	3.80
G	7.30	7.70
H	9.30	9.70
H1	3.90	4.10
J	1.60	2.00
J1	0.80	1.10
J2	1.80	2.20
R	3.10Φ	3.50Φ
T	0.40	0.60
Unit: mm		

DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
KBJ1506	KBJ1506	20	Tube
KBJ1508	KBJ1508	20	Tube
KBJ1510	KBJ1510	20	Tube



Y: Last digit of year (5 for 2025)

M: Manufacture's code

WW: Week code (01 to 53)

KBJXXXX: Device marking code

NOTICE:

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