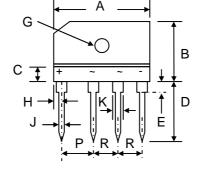
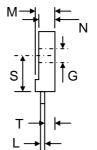


# **6.0A SINGLE-PHASE BRIDGE RECTIFIER**

#### **Features**

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Recognized File # E157705





1120 0					
Dim	Min	Max			
Α	29.7	30.3			
В	19.7	20.3			
С		5.0			
D	17.0	18.0			
Е	3.8	4.2			
G	3.1Ø	3.4Ø			
Н	2.3	2.7			
J	0.9	1.1			
K	1.8	2.2			
L	0.6	0.8			
M	4.8	5.3			
N	4.05	4.35			
Р	9.8	10.2			
R	7.3	7.7			
S	10.8	11.2			
T	2.3	2.7			
All Dimensions in mm					

KBJ-6

## **Mechanical Data**

Case: KBJ-6, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on Body

Weight: 7.4 grams (approx.)

Mounting Position: Any

Mounting Torque: 10 cm-kg (8.8 in-lbs) Max.

Lead Free: For RoHS / Lead Free Version,
Add "-LF" Suffix to Part Number, See Page 4

## Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	Symbol	KBJ 6A	KBJ 6B	KBJ 6D	KBJ 6G	KBJ 6J	KBJ 6K	KBJ 6M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T <sub>C</sub> = 110°C (Note 1)	lo				6.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	170					А		
Forward Voltage per diode @I <sub>F</sub> = 3.0A	VFM				1.0				V
	lr	10 250					μΑ		
Typical Thermal Resistance per leg (Note 2)	$R_{ heta}JA$	26					°C/W		
Typical Thermal Resistance per leg (Note 1)	R⊕JC	3.4					•	°C/W	
Operating and Storage Temperature Range	Tj, Tstg			-	55 to +15	0			°C

Note: 1. Device mounted on 75 x 75 x 1.6mm thick Al plate heatsink.

2. Device mounted on P.C.B. without heatsink.

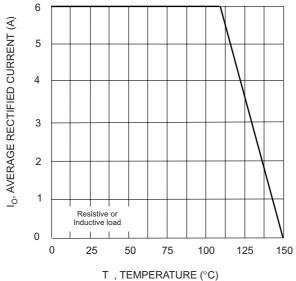


Fig. 1 Forward Current Derating Curve

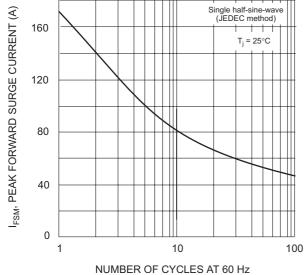


Fig. 3 Maximum Non-Repetitive Surge Current

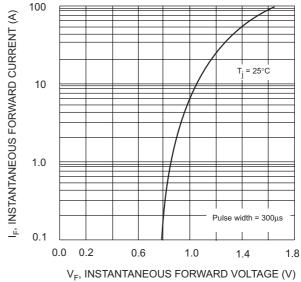
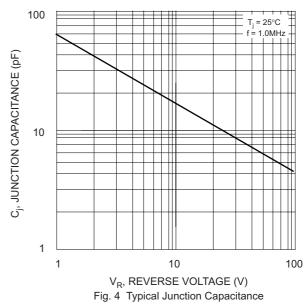
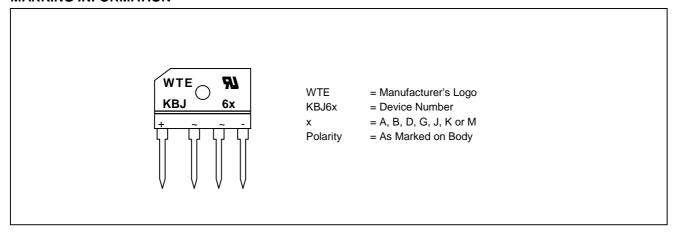


Fig. 2 Typical Fwd Characteristics



## **MARKING INFORMATION**



# **PACKAGING INFORMATION**

#### **BULK**

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
475 x 40 x 7	15	490 x 145 x 135	750	510 x 305 x 160	1,500	17.0

Note: 1. Anti-static tube, water clear color.

#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
KBJ6A	SIL Bridge	15 Units/Tube
KBJ6B	SIL Bridge	15 Units/Tube
KBJ6D	SIL Bridge	15 Units/Tube
KBJ6G	SIL Bridge	15 Units/Tube
KBJ6J	SIL Bridge	15 Units/Tube
KBJ6K	SIL Bridge	15 Units/Tube
KBJ6M	SIL Bridge	15 Units/Tube

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, KBJ6A-LF.

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**WARNING**: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

**Phone:** 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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