

■ **Features**

- Glass passivated chip
- Low reverse leakage current
- High surge current capability
- Reliable low cost construction utilizing molded plastic technique

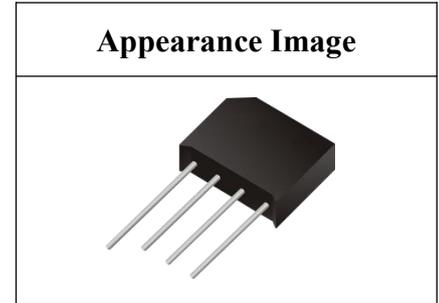
Reverse Voltage 50-1000 V
Forward Current 4.0 A max

■ **Applications**

- General purpose use in AC/DC bridge full wave rectification

■ **Mechanical Data**

- Case: KBL
- Polarity symbols being marked on body
- Molding compound meets UL 94V-0 flammability rating
- RoHS-compliant, Solder plated, solderable per MIL-STD-750, Method 2026



■ **Marking**

- KBLxxx(005~10)

■ **Maximum Ratings @ Ta = 25°C unless otherwise noted**

PARAMETER	SYMBOL	UNIT	KBL005	KBL01	KBL02	KBL04	KBL06	KBL08	KBL10
Repetitive peak reverse voltage	V _{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS voltage	V _{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V _{DC}	V	50	100	200	400	600	800	1000
Maximum average output current@60Hz sine wave, resistance load	I _{F(AV)}	A	4.0						
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I _{FSM}	A	125						
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	250						
Current squared time @ 1ms ≤ t < 8.3ms T _j = 25°C, Rating of per diode	I ² t	A ² S	64.84						
Storage temperature	T _{stg}	°C	-55~+150						
Junction temperature	T _j	°C	-55~+150						

■ **Electrical Characteristics @ Ta = 25°C unless otherwise noted**

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	KBL005	KBL01	KBL02	KBL04	KBL06	KBL08	KBL10
Maximum instantaneous forward voltage	I _F =2.0A	V _F	V	1.0						
Maximum DC reverse current at rated DC blocking voltage	V _R =V _{DC} , T _j =25°C	I _R	μA	5						
	V _R =V _{DC} , T _j =100°C	I _R		500						

■ **Characteristic Curve (Typical)**

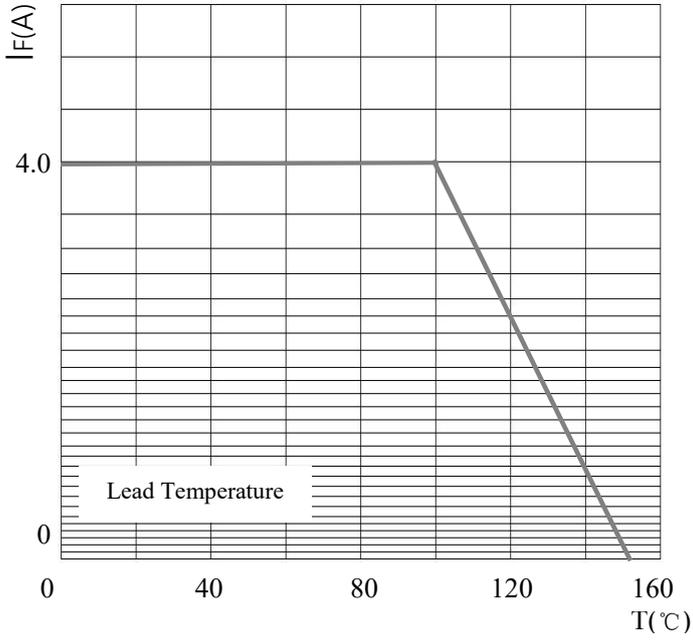


FIG1. Derating Curve For Output Rectified Current

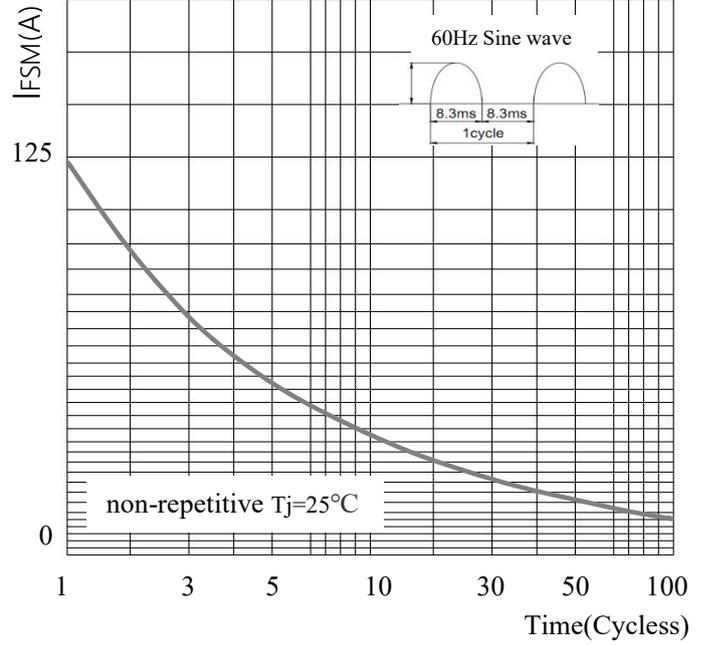


FIG2. Surge Forward Current Capability

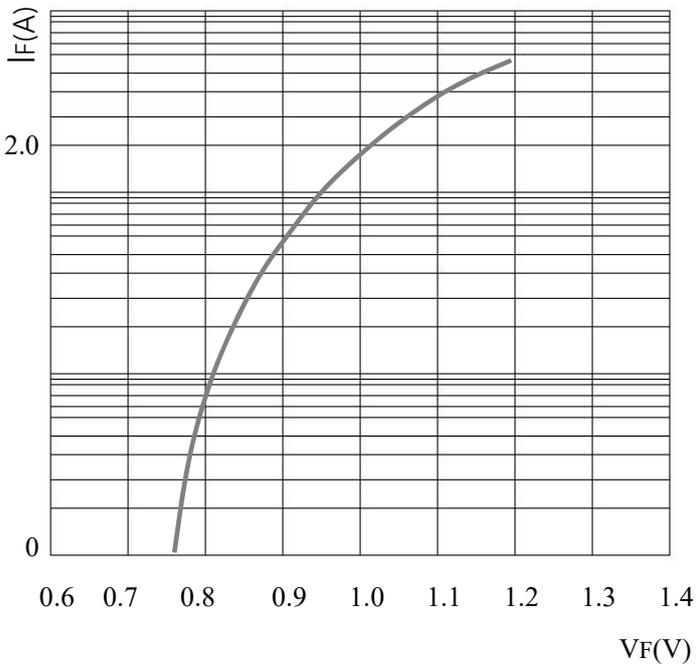


FIG3. Typical Forward Characteristics

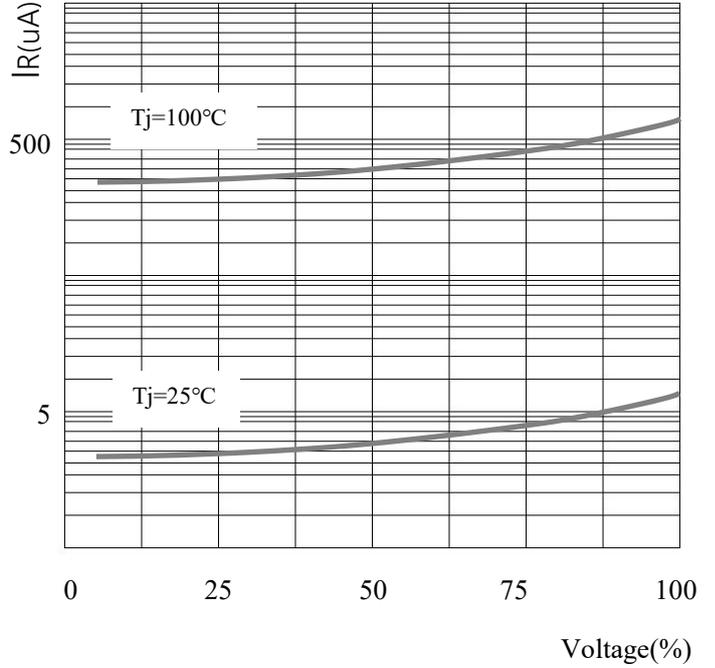
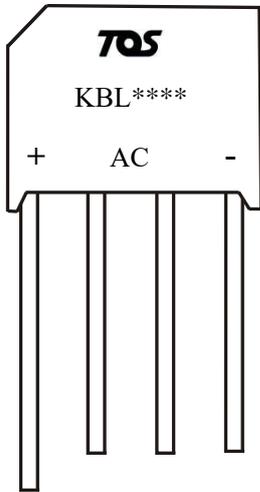


FIG4. Typical Reverse Characteristics

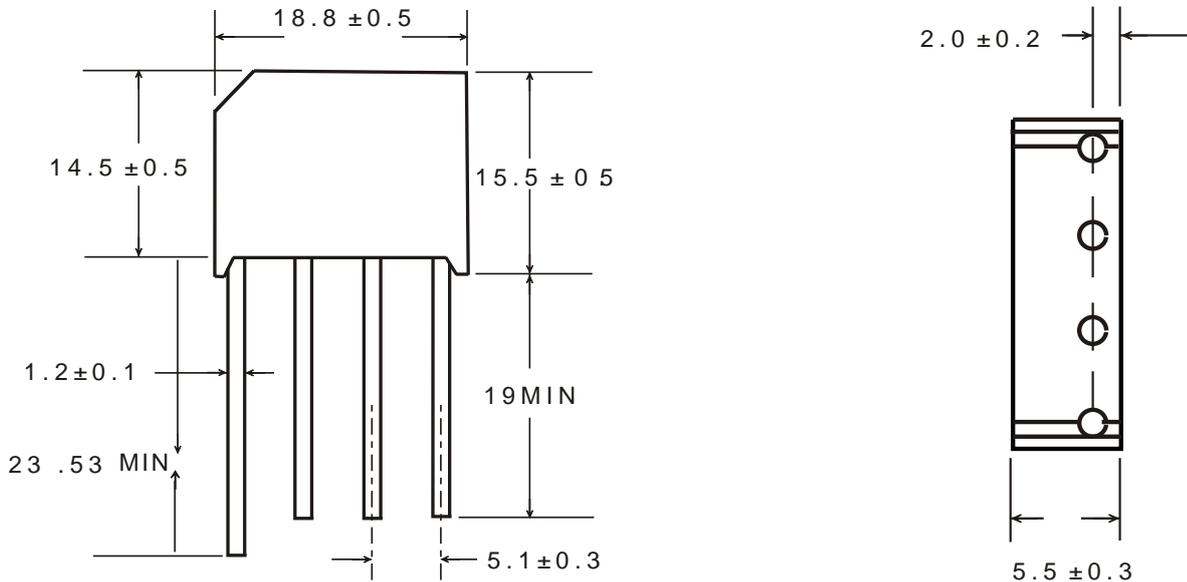
■ **Marking and packet information**



KBL****: Marking Model **TOS**: Brand Logo

Packaging information	
每盒	500PCS
每箱	3000PCS
脚长定制	支持

■ **KBL Package outline dimensions**



Dimensions in millimeters

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