

■ **Features**

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

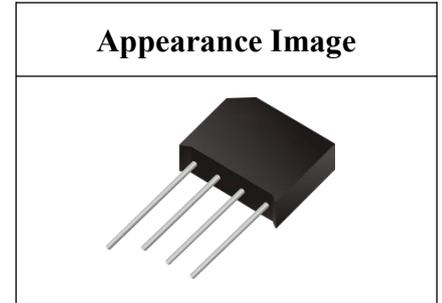
Reverse Voltage 50-1000 V
Forward Current 3.0 A max

■ **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**

- KBL3xx(005~10)

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

PARAMETER	SYMBOL	UNIT	KBL3005	KBL301	KBL302	KBL304	KBL306	KBL308	KBL310
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	3.0						
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I_{FSM}	A	80						
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	160						
Current squared time @1ms≤t<8.3ms Tj=25°C, Rating of per diode	I^2t	A²S	26.56						
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	KBL3005	KBL301	KBL302	KBL304	KBL306	KBL308	KBL310
Maximum instantaneous forward voltage	$I_F=1.5A$	V_F	V	1.0						
Maximum DC reverse current at rated DC blocking voltage	$V_R=V_{DC}, T_j=25^\circ C$	I_R	μA	5						
	$V_R=V_{DC}, T_j=100^\circ C$	I_R		500						

■ **Characteristic Curve (Typical)**

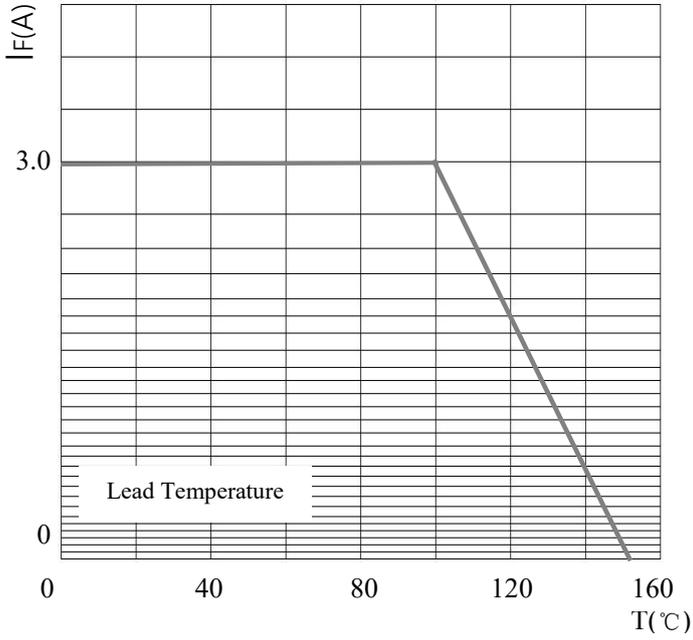


FIG1. Derating Curve For Output Rectified Current

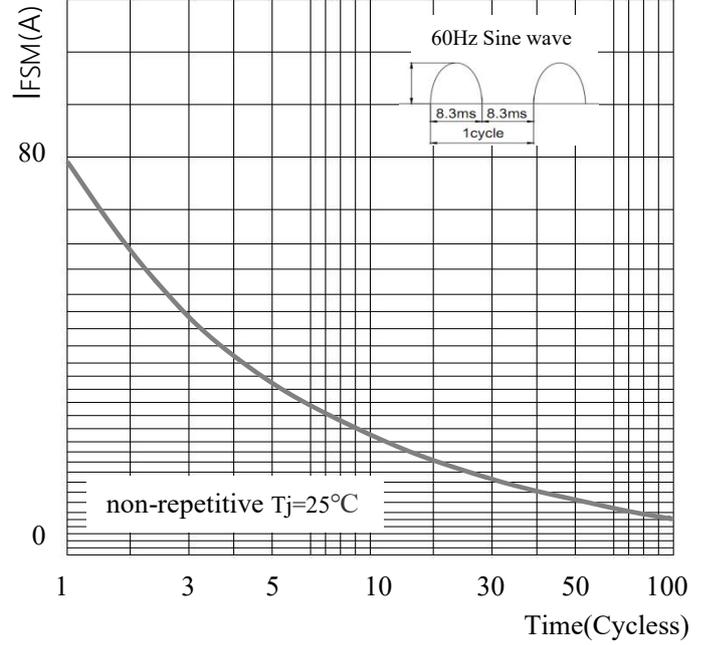


FIG2. Surge Forward Current Capability

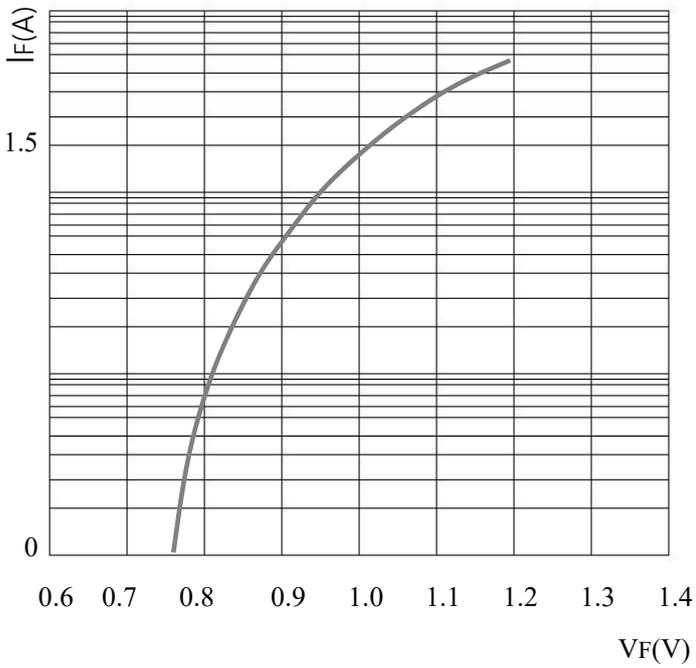


FIG3. Typical Forward Characteristics

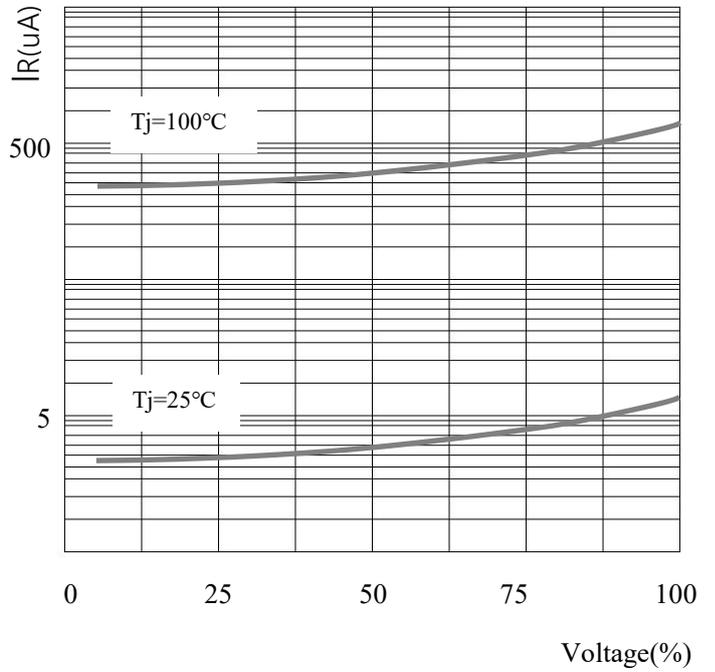
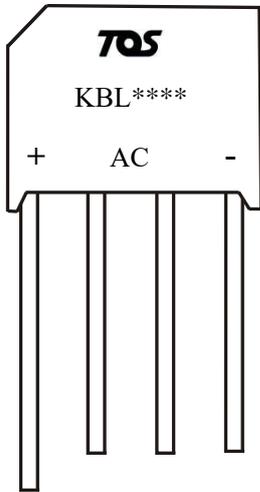


FIG4. Typical Reverse Characteristics

■ **Marking and packet information**

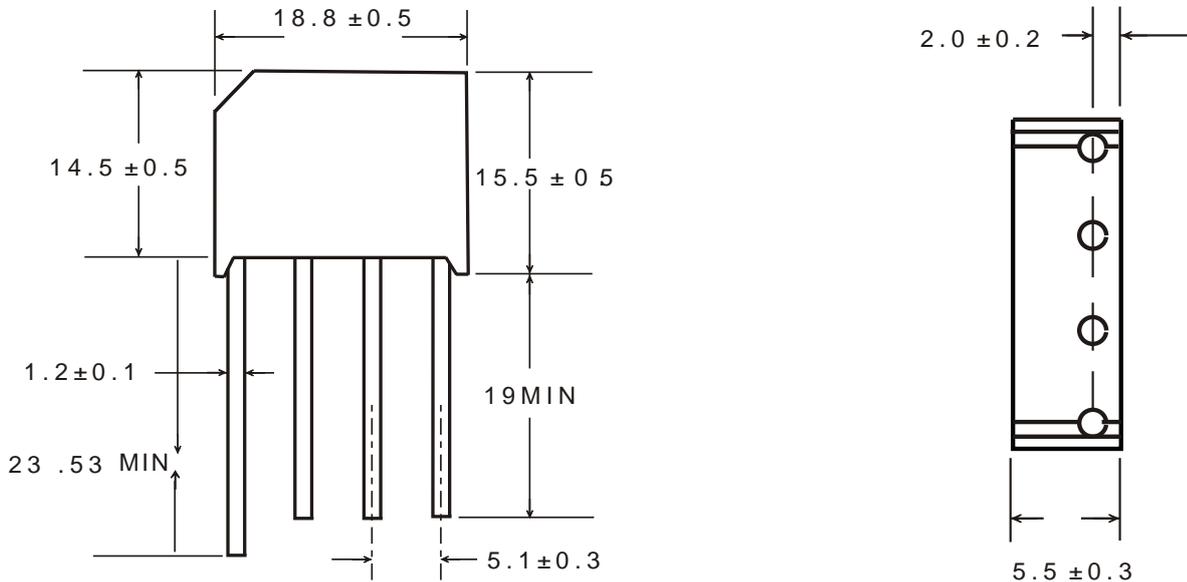


KBL****: Marking Model

TOS: Brand Logo

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

■ **KBL Package outline dimensions**



Dimensions in millimeters

■ **Notice**

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