XILONG
熙隆半导体

UG8KB05 THRU UG8KB100
D3K Plastic-Encapsulate Bridge Rectifier

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

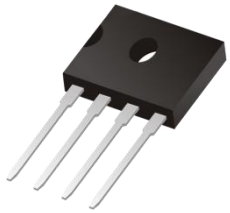
Reverse Voltage
50-1000 V

Forward Current
8.0 A max

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

Mechanical Data
- Case：D3K
- 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

Appearance Image



Marking
- UG8KBxx(05~100)

Maximum Ratings @ Ta = 25℃ unless otherwise noted

PARAMETER	SYMBOL	UNIT	UG8KB05	UG8KB10	UG8KB20	UG8KB40	UG8KB60	UG8KB80	UG8KB100
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	8.0						
Peak forward surge current 8.3 ms single half sine wave superimposed on rated load	I_{FSM}	A	170						
Peak forward surge current 1.0 ms single half sine wave superimposed on rated load		A	340						
Current squared time @1ms≤t<8.3ms Tj=25℃，Rating of per diode	I^2t	A^2S	119.94						
Storage temperature	T_{stg}	℃	-55～+150						
Junction temperature	T_j	℃	-55～+150						

Electrical Characteristics @ Ta = 25℃ unless otherwise noted

PARAMETER	TEST CONDITIONS	SYMBOL	UNIT	UG8KB05	UG8KB10	UG8KB20	UG8KB40	UG8KB60	UG8KB80	UG8KB100
Maximum instantaneous forward voltage	I_F=4.0A	V_F	V	1.0						
Maximum DC reverse currentat rated DC blocking voltage	V_R=V_{DC}, Tj=25℃	I_R	μA	5						
	V_R=V_{DC}, Tj=100℃	I_R		500						

Characteristic Curve (Typical)

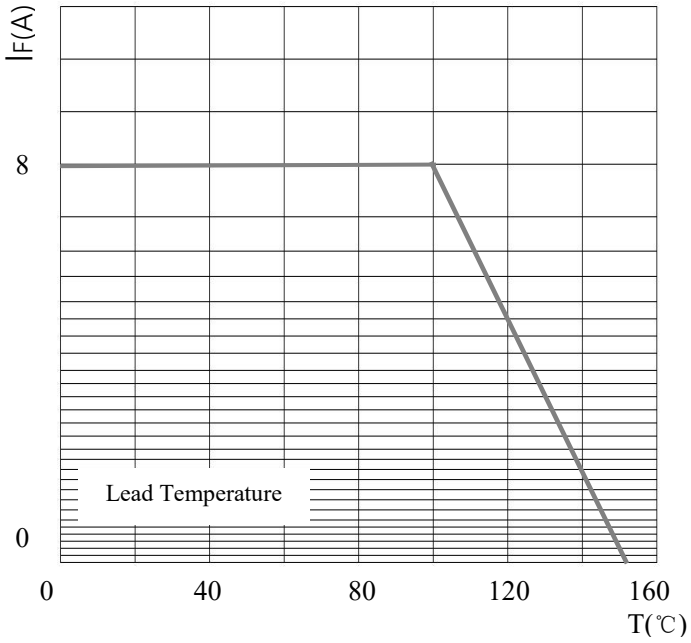


FIG1.Derating Curve For Output Rectified Current

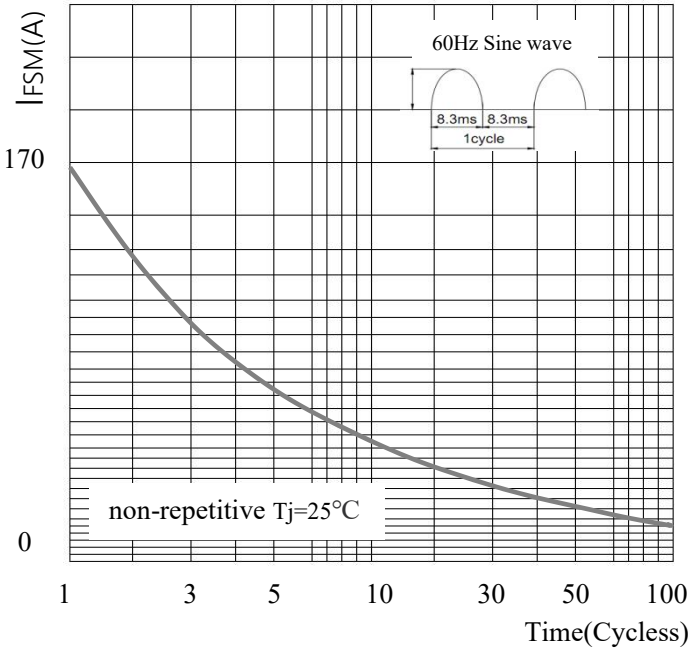


FIG2. Surge Forward Current Capability

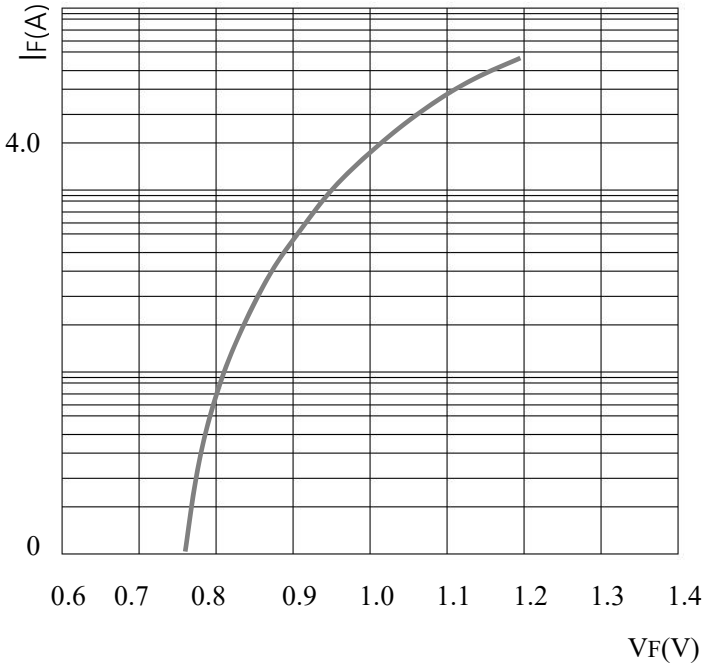


FIG3.Typical Forward Characteristics

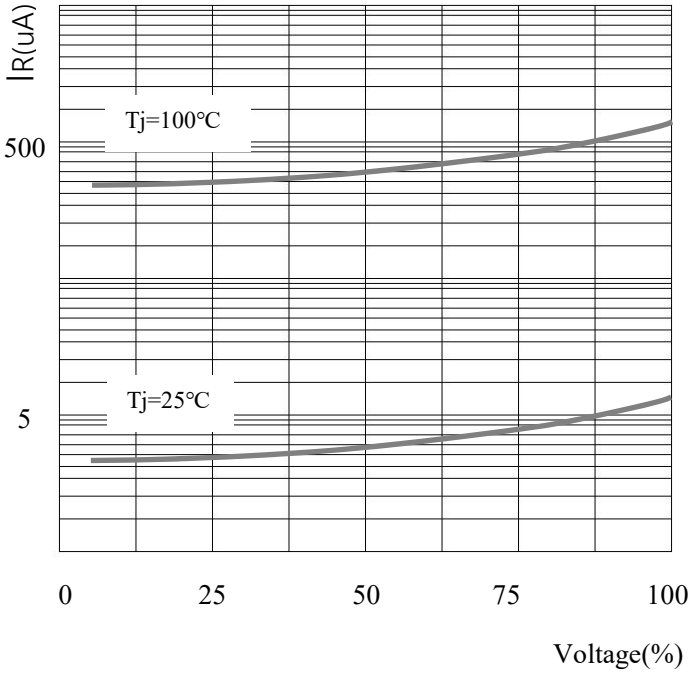
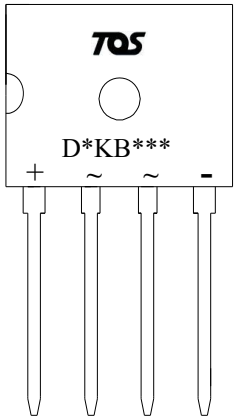


FIG4.Typical Reverse Characteristics

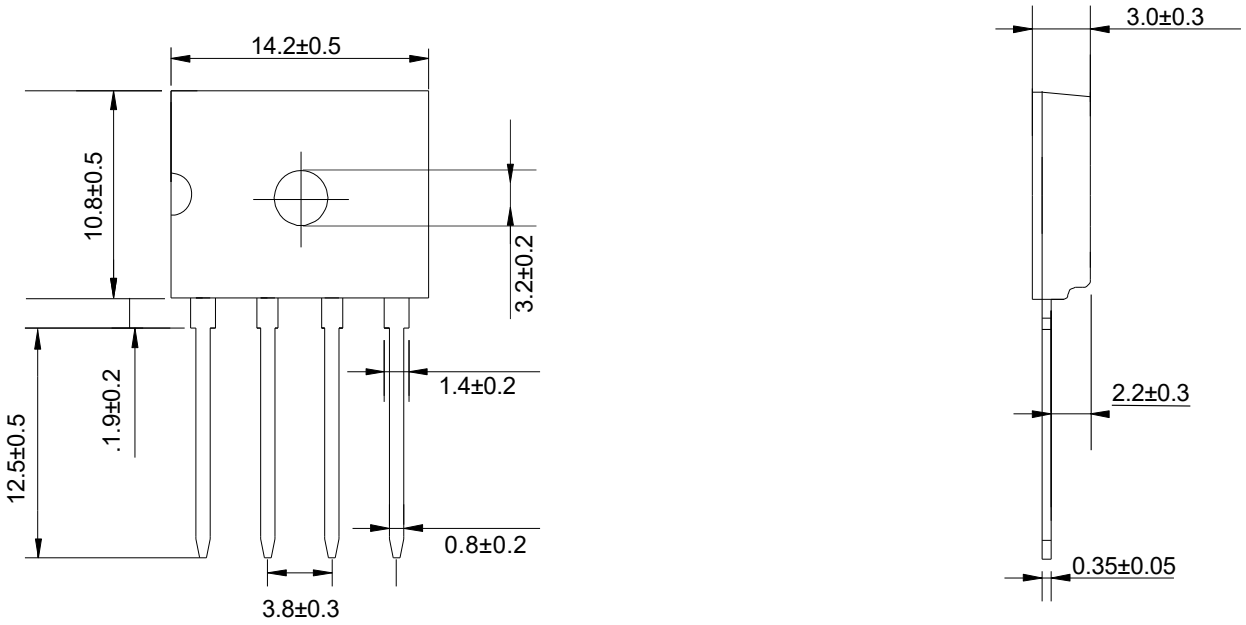
Marking and packet information



D*KB***：Marking Model　　：Brand Logo

Packaging information	
每盒	500PCS
每箱	5000PCS
脚长定制	支持

D3K Package outline dimensions



Dimensions in milimeters

Notice

XILONG reserves the right to make modifications,enhancements,improvements,corrections or other changes without further notice to any productherein.
xilong does not assume any liability arising out of the application or use of any product described herein.