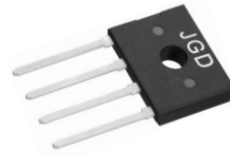


Features

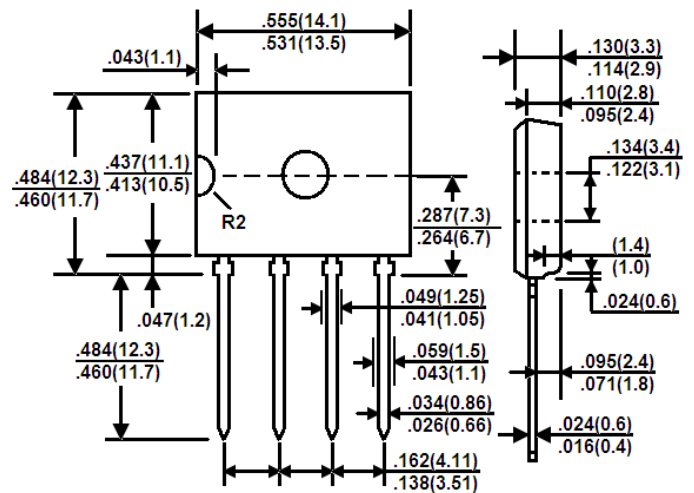
- * Glass passivated chip junction
- * High Surge Current Capability
- * High case dielectric strength
- * Ideal for printed circuit boards



RoHS
COMPLIANT

Package Outline Dimensions in inches (millimeters)

D3K:



Mechanical Data

- * Terminal: Plated leads solderable per MIL-STD 202E, Method 208C
- * Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
- * Polarity: Polarity symbol marked on body
- * Mounting position: any

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Type Number	Symbol	UG4K B05	UG4K B10	UG4K B20	UG4K B40	UG4K B60	UG4K B80	UG4K B100	Unit
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current Tc 138℃ with heat sink	If(av)	4.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	Ifsm	135							A
Maximum instantaneous forward voltage drop per leg at 2.0A	Vf	1.00							V
Rating for fusing (3ms≤ t < 8.3ms)	I²t	75							A²Sec
Maximum DC reverse current at Ta = 25℃ rated DC blocking voltage per leg Ta =125℃	Ir	10.0 500							μA
Thermal resistance without heat sink	Rth(ja)	55							℃/W
with heat sink	Rth(jc)	1.5							
without heat sink	Rth(jl)	15							
Operating junction and storage temperature range	Tj, Tstg	-55 to +150							℃

Ratings and Characteristic Curves

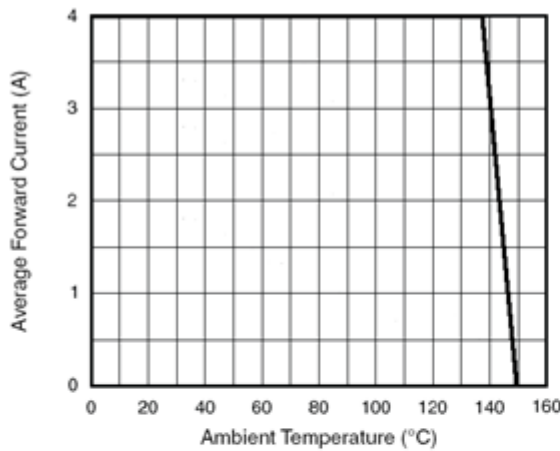


Figure 1. Forward Current Derating Curve

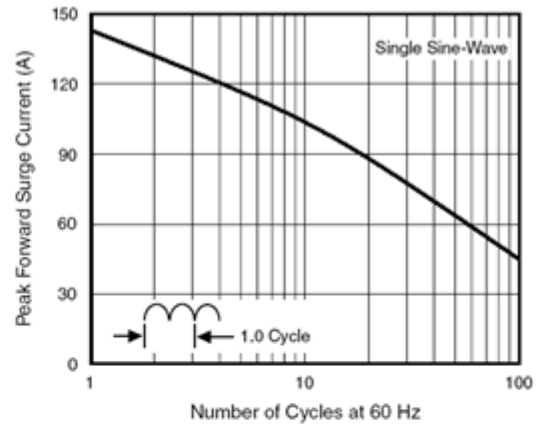


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

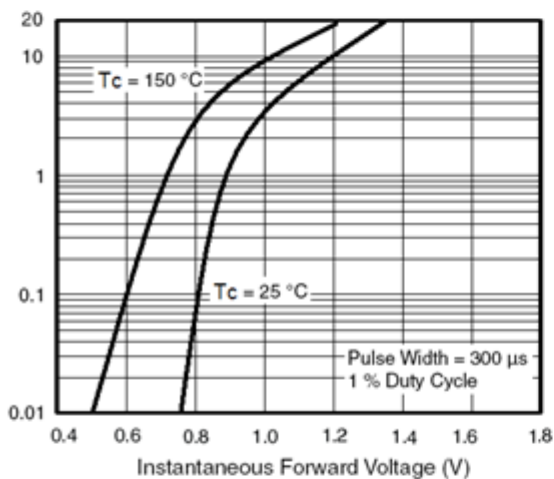


Figure 3. Typical Forward Characteristics Per Diode

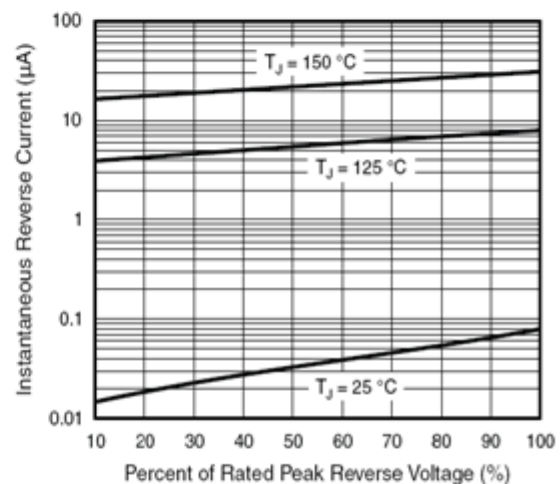


Figure 4. Typical Reverse Leakage Characteristics Per Diode

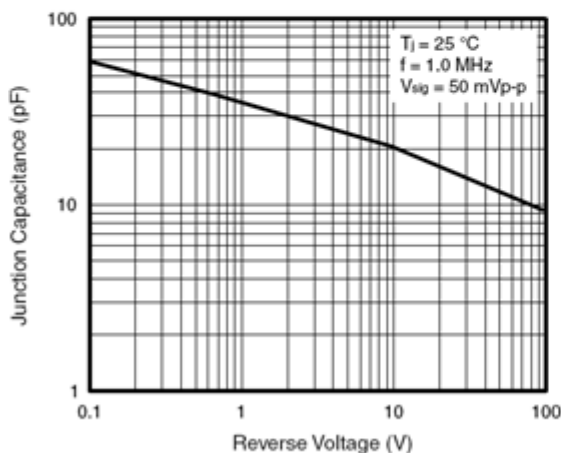


Figure 5. Typical Junction Capacitance Per Diode



UG4KB05 THRU UG4KB100

Glass Passivated Single Phase Bridge Rectifiers

Ordering Information

Part No.	Package	Packing
UG4KB05~UG4KB100	D3K	30pcs/Tube
UG4KB05~UG4KB100	D3K	0.5K/Bulk packing