UG4KB80-60A

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 800V Current: 4.0A

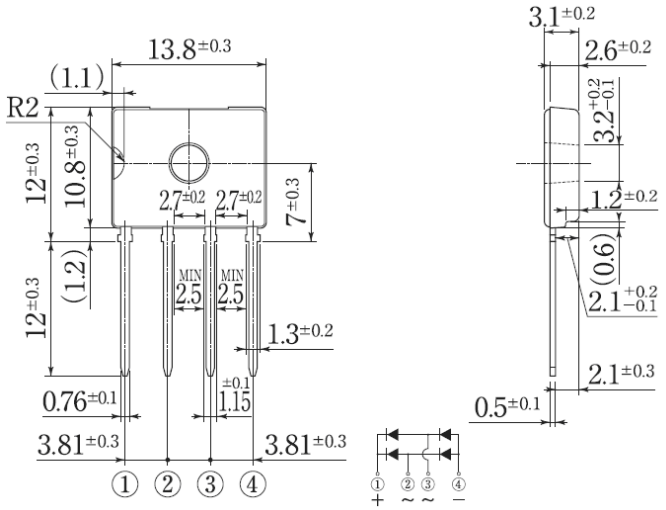
Features

Glass passivated chip junction
High case dielectric strength
High surge current capability
Ideal for printed circuit board
This series is UL listed under Recognized Component Index, file number E330278

Mechanical Data

Terminal: Plated leads solderable per J-STD-002
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any

D3K



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	Symbol	UG4KB80-60A	units
Maximum repetitive peak reverse voltage	Vrrm	800	V
Maximum RMS voltage	Vrms	560	V
Maximum DC blocking voltage	Vdc	800	V
Maximum average forward rectified output current Tc 100℃ with heatsink	If(av)	4.0	A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	Ifsm	135	A
Peak forward surge current (t ≤1.0ms)	Ifsm	270	A
Maximum instantaneous forward voltage drop per leg at 2.0A	Vf	1.00	V
Rating for fusing (3ms≤ t < 8.3ms)	I^2t	75	A^2Sec
Maximum DC reverse current at rated DC blocking voltage per leg Ta = 25°C Ta = 125°C	Ir	10.0 500	μA
Thermal resistance with heatsink	Rth(ja) Rth(jc) Rth(jl)	18 1.5 6.5	℃/W
Thermal resistance without heatsink	Rth(ja) Rth(jc) Rth(jl)	55 12 15	℃/W
Operating junction and storage temperature range	Tj, Tstg	-55 to +150	℃

Note:

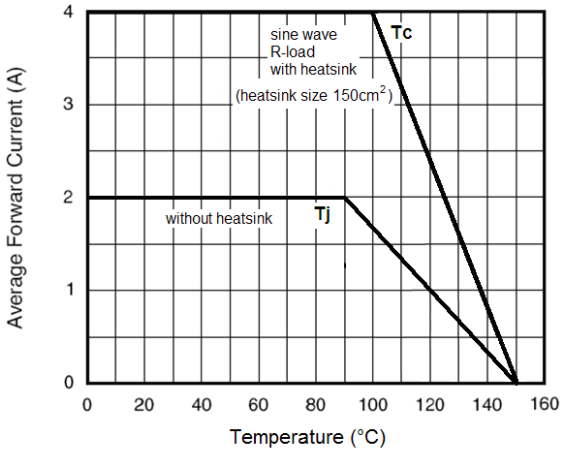


Figure 1. Forward Current Derating Curve

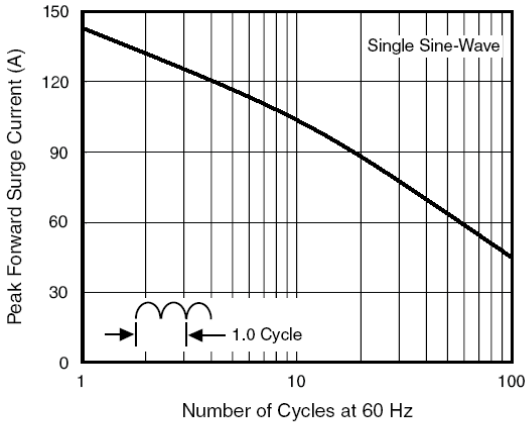


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

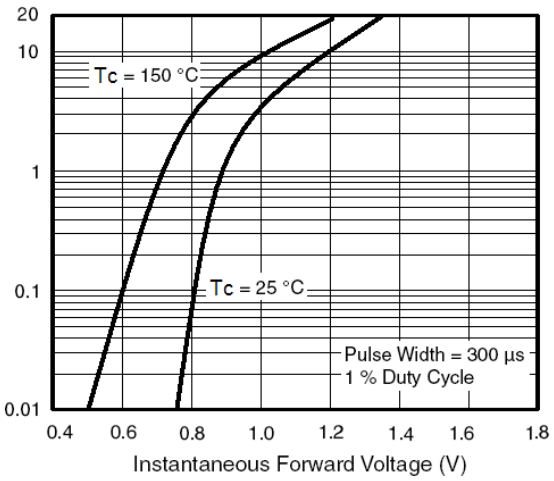


Figure 3. Typical Forward Characteristics Per Diode

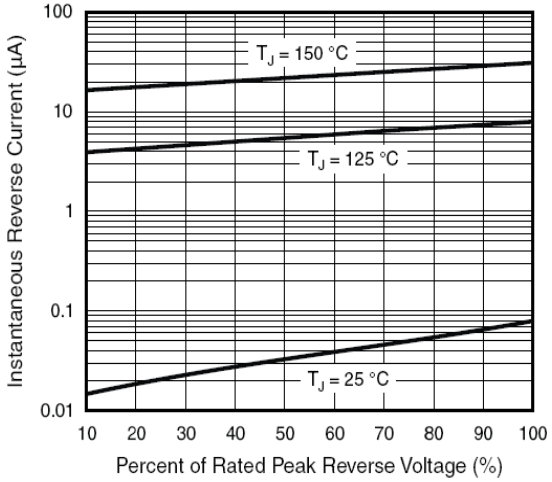


Figure 4. Typical Reverse Leakage Characteristics Per Diode

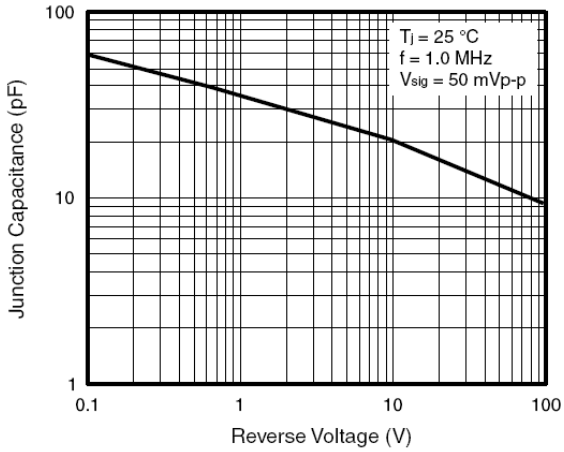


Figure 5. Typical Junction Capacitance Per Diode