UG3KB60-E-43L THRU UG3KB80-E-43L

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 600 to 800V Current: 3.0A

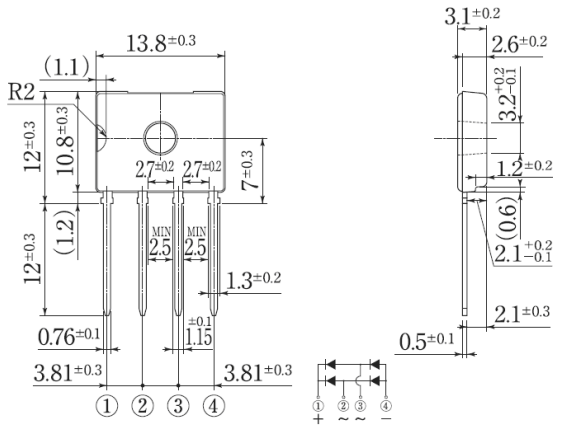
Features

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
Halogen Free

Mechanical Data

Terminal: Plated leads solderable per J-STD-002
Case: Halogen Free 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	UG3KB60-E-43L	UG3KB80-E-43L	units
Maximum repetitive peak reverse voltage	Vrrm	600	800	V
Maximum RMS voltage	Vrms	420	560	V
Maximum DC blocking voltage	Vdc	600	800	V
Maximum average forward rectified output current Tc 140℃ with heatsink	If(av)	3.0		A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	Ifsm	90		A
Maximum instantaneous forward voltage drop per leg at 1.5A	Vf	1.05		V
Rating for fusing (3ms≤ t < 8.3ms)	I^2t	35		A^2Sec
Maximum DC reverse current at Ta = 25°C rated DC blocking voltage per leg Ta = 125°C	Ir	10.0 500		μA
Thermal resistance without heatsink with heatsink without heatsink	Rth(ja) Rth(jc) Rth(jl)	55 1.5 15		℃/W
Operating junction and storage temperature range	Tj, Tstg	-55 to +150		℃

Note:

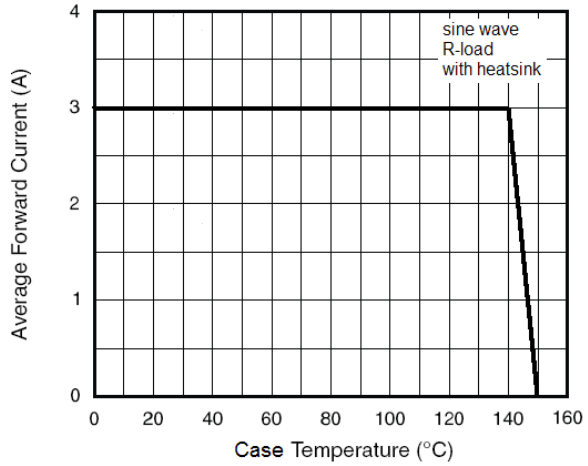


Figure 1. Forward Current Derating Curve

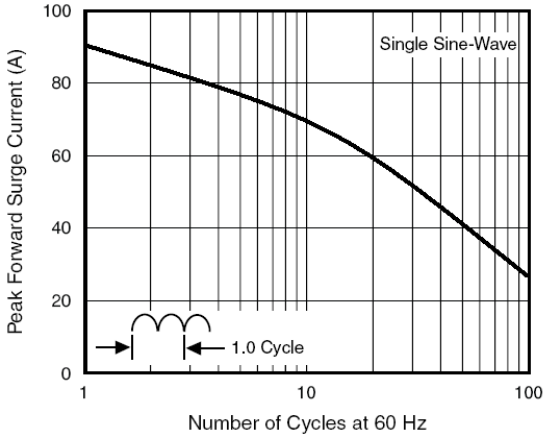


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Diode

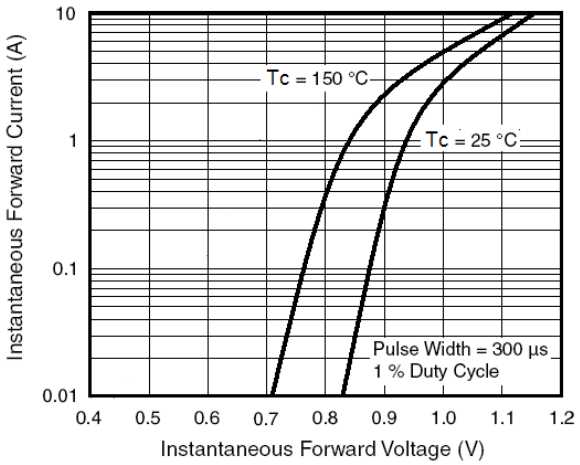


Figure 3. Typical Forward Characteristics Per Diode

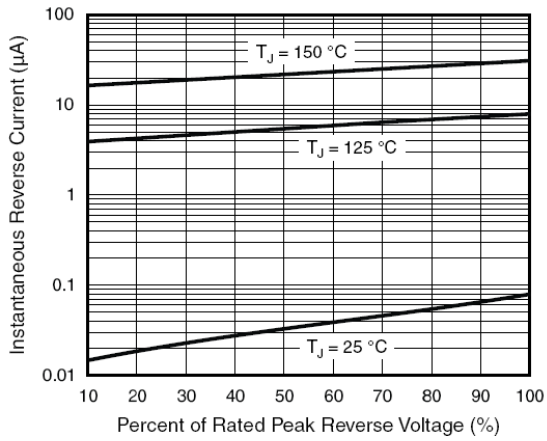


Figure 4. Typical Reverse Leakage Characteristics Per Diode

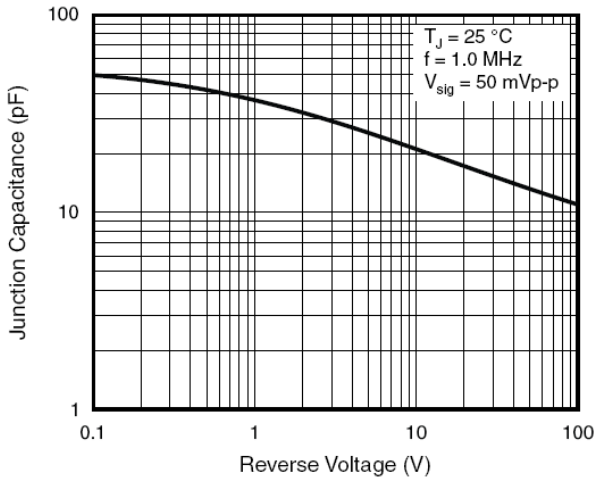


Figure 5. Typical Junction Capacitance Per Diode