

G3B THRU G3K

SINTERED GLASS JUNCTION RECTIFIER

VOLTAGE: 100V to 800V

CURRENT: 3.0A

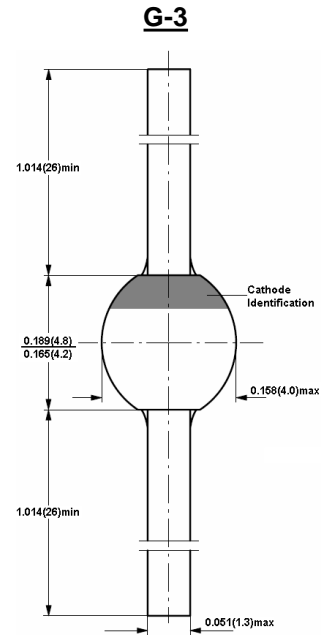


FEATURE

High temperature metallurgically bonded construction
Sintered glass cavity free junction
High temperature soldering guaranteed
350°C /10sec/0.375"lead length at 5 lbs tension

MECHANICAL DATA

Terminal: Plated axial leads solderable per
MIL-STD 202E, method 208C
Case: G-3 sintered glass case
Polarity: color band denotes cathode
Mounting position: any



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,
for capacitive load, derate current by 20%)

	SYMBOL	G3B	G3J	G3K	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	100	600	800	V
Maximum RMS Voltage	Vrms	70	420	560	V
Maximum DC blocking Voltage	Vdc	100	600	800	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =70°C	If(av)	3.0			A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	125.0			A
Maximum Instantaneous Forward Voltage at 3.0A	Vf	1.2	1.1		V
Maximum Full Load Reverse Current Full Cycle Average at 70°C	Ir(av)	200.0			μA
Maximum DC Reverse Current at rated DC blocking voltage Ta =25°C	Ir	5.0			μA
		100.0			μA
Typical Reverse Recovery Time (Note 1)	Trr	3.0			μS
Typical Junction Capacitance (Note 2)	Cj	40.0			pF
Typical Thermal Resistance (Note 3)	Rth(ja) Rth(jl)	20.0 10.0			°C /W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175			°C

Note:

1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to Ambient and from Junction to Lead at 3/8"lead length, with both leads mounted between heatsinks

RATINGS AND CHARACTERISTIC CURVES G3B THRU G3K

FIG. 1 - FORWARD CURRENT DERATING CURVE

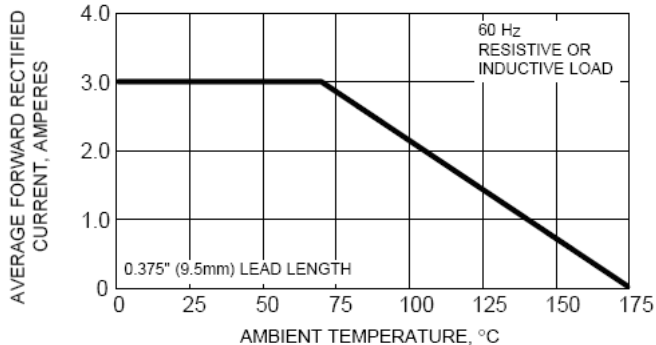


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

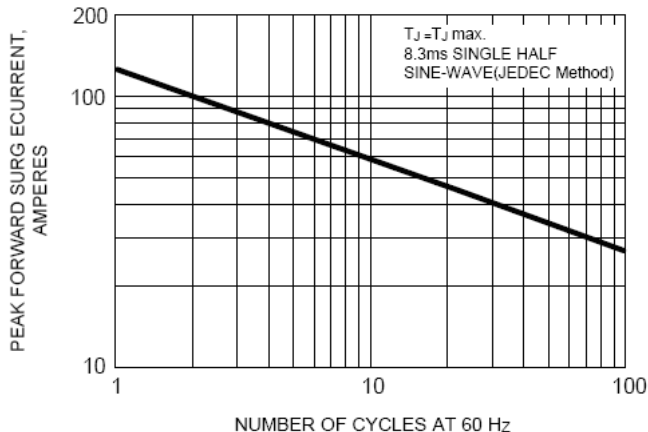


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

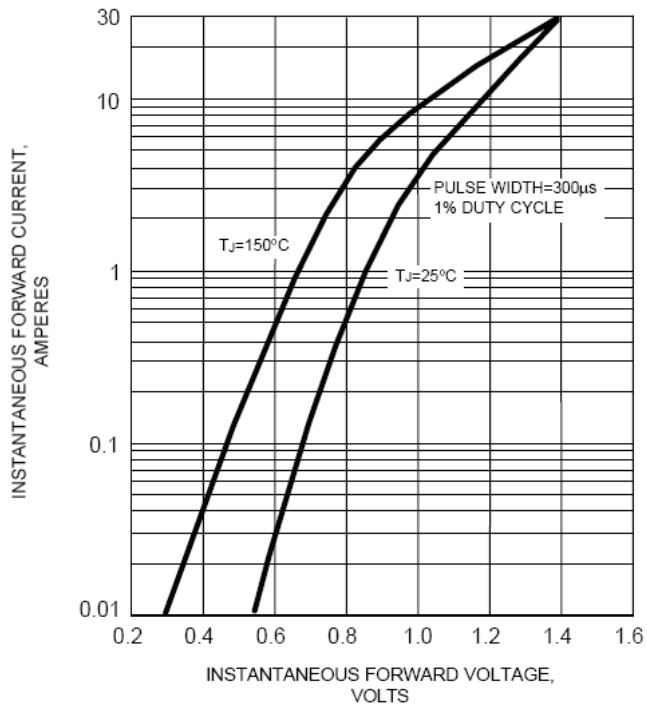


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

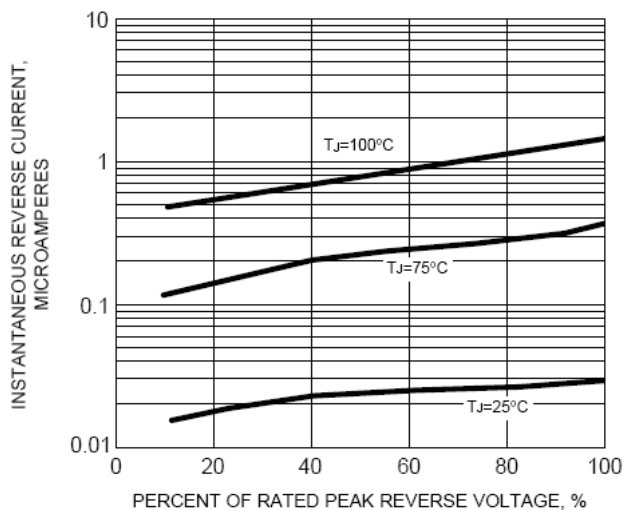


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

