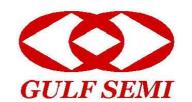
UGS2J THRU UGS2K

SURFACE MOUNT SUPERFAST RECTIFIER

VOLTAGE: 600V to 800V CURRENT: 2.0A



FEATURE

Ideal for surface mount pick and place application

Low profile package

Built-in strain relief

High surge capability

High temperature soldering guaranteed

260 ℃/10sec/at terminals

Glass passivated chip

Superfast recovery time for high efficiency

MECHANICAL DATA

Terminal: Plated axial leads solderable per

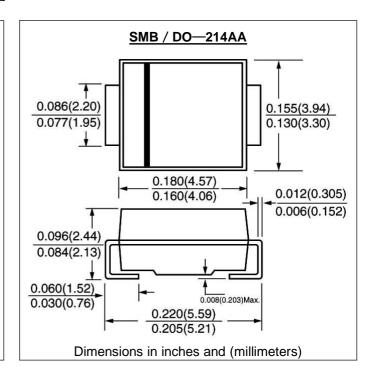
MIL-STD 202E, method 208C

Case: Molded with UL-94 Class V-0 recognized Flame

Retardant Epoxy

Polarity: color band denotes cathode

Mounting position: any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

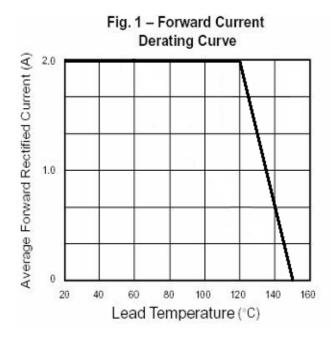
	S	SYMBOL	UGS2J	UGS2K	units
Maximum Recurrent Peak Reverse Voltage		Vrrm	600	800	V
Maximum RMS Voltage		Vrms	420	560	V
Maximum DC blocking Voltage		Vdc	600	800	V
Maximum Average Forward Rectified Current 3/8"lead length at T _L =120°C		If(av)	2.0		А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		Ifsm	50		А
Maximum Forward Voltage at rated F current	Forward	Vf	1.5	2.5	V
	a =25°C =125°C	Ir	5.0 200.0		μA
Maximum Reverse Recovery Time (Note 1)		Trr	25		nS
Typical Junction Capacitance (Note 2)		Cj	25.0		pF
Typical Thermal Resistance (Note 3)		Rth(jl)	13		°C/W
Storage and Operating Junction Temperature		Tstg,Tj	-55 to +150		$^{\circ}$ C

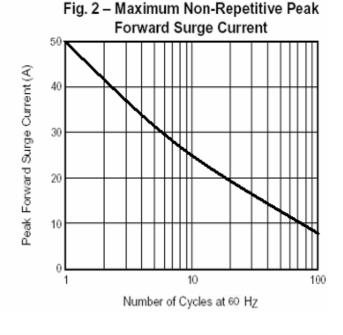
Note:

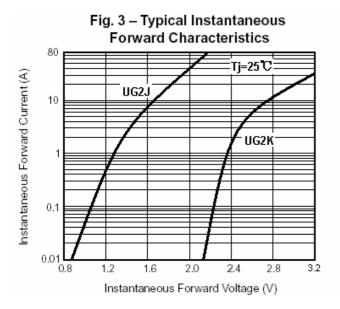
- 1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- 3. Thermal Resistance from Junction to terminal mounted on 5×5mm copper pad area

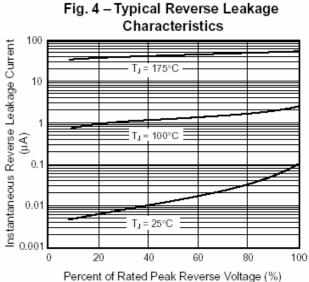
Rev.A1 www.gulfsemi.com

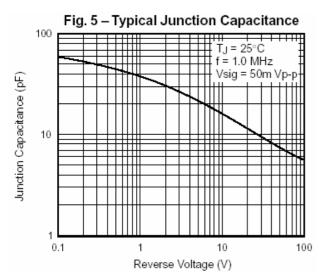
RATINGS AND CHARACTERISTIC CURVES UGS2J THRU UGS2K











Rev.A1 www.gulfsemi.com