UG2A THRU UG2D

ULTRAFAST EFFICIENT PLASTIC SILICON RECTIFIER VOLTAGE: 50 TO 200V CURRENT: 2.0A



FEATURE Low power loss High surge capability Glass passivated chip junction Ultra-fast recovery time for high efficiency High temperature soldering guaranteed 250 °C/10sec/0.375 ″ lead length at 5 lbs tension

Terminal: Plated axial leads solderable per

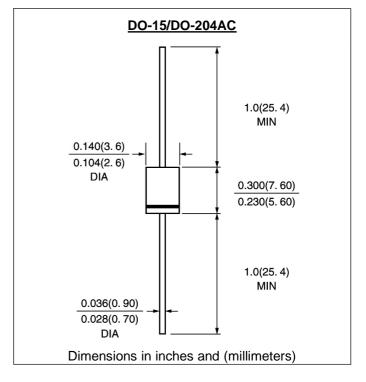
MIL-STD 202E, method 208C Case: Molded with UL-94 Class V-0 recognized Flame

MECHANICAL DATA

Mounting position: any

Retardant Epoxy

Polarity: color band denotes cathode



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	UG2A	UG2B	UG2C	UG2D	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	150	200	V
Maximum RMS Voltage	Vrms	35	70	105	140	V
Maximum DC blocking Voltage	Vdc	50	100	150	200	V
Maximum Average Forward Rectified Current 3/8″ lead length at Ta =75 $^{\circ}$ C	lf(av)	2.0				А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	lfsm	80.0				A
Maximum Forward Voltage at Forward current 2.0A Peak	Vf	0.95				V
Maximum DC Reverse Current Ta =25°C	lr	5.0				μ 🖊
at rated DC blocking voltage Ta =120 $^{\circ}$ C		200.0				μ 🖊
Maximum Reverse Recovery Time (Note 1)	Trr	15			nS	
Typical Junction Capacitance (Note 2)	Cj	15				pF
Typical Thermal Resistance (Note 3)	R(ja)	45				°СЛ
Storage and Operating Junction Temperature	Tstg,Tj	-55 to +150				°C

Note:

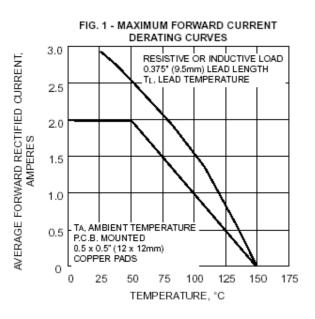
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A

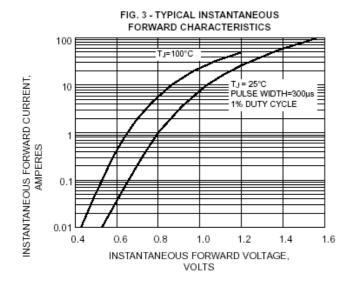
2. Measured at 1.0 MHz and applied reverse voltage of 4.0 Vdc

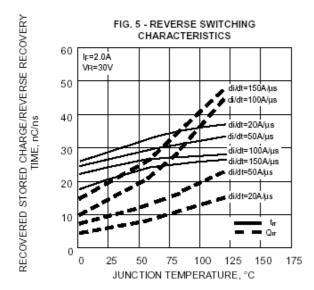
3. Thermal Resistance from Junction to Ambient at 3/8" lead length, P.C. Board Mounted

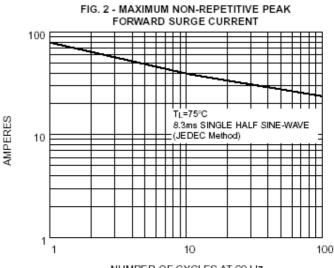
RATINGS AND CHARACTERISTIC CURVES **UG2A THRU UG2D**

PEAK FORWARD SURGE CURRENT.



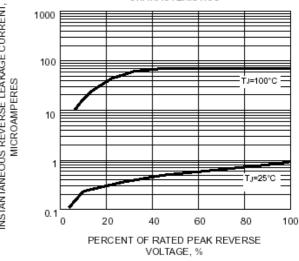






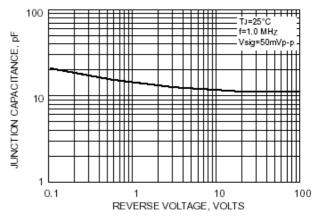
NUMBER OF CYCLES AT 60 Hz

FIG. 4 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS



INSTANTANEOUS REVERSE LEAKAGE CURRENT.

FIG. 6 - TYPICAL JUNCTION CAPACITANCE



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