

UG2F THRU UG2G

**ULTRAFAST EFFICIENT
PLASTIC SILICON RECTIFIER**
VOLTAGE: 300 TO 400V CURRENT: 2.0A



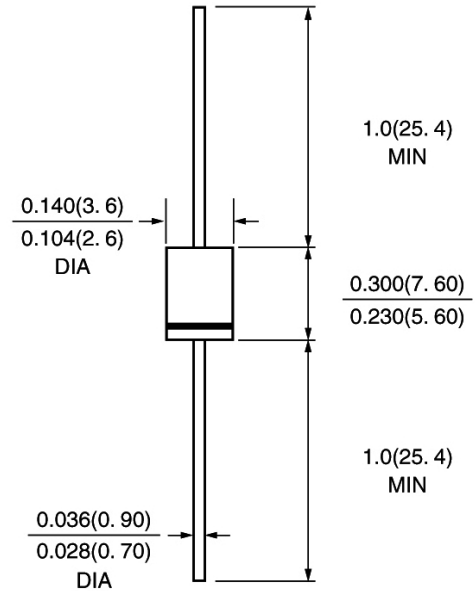
FEATURE

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

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

DO-15/DO-204AC



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	UG2F	UG2G	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	300	400	V
Maximum RMS Voltage	V _{rms}	210	280	V
Maximum DC blocking Voltage	V _{dc}	300	400	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta =50°C	I _{f(av)}	2.0		A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	50.0		A
Maximum Forward Voltage at Forward current 2.0A Peak	V _f	1.1		V
Maximum DC Reverse Current at rated DC blocking voltage	I _r		5.0 200.0	μ A μ A
Maximum Reverse Recovery Time (Note 1)	T _{rr}	30		nS
Typical Junction Capacitance (Note 2)	C _j	15		pF
Typical Thermal Resistance (Note 3)	R _{th(ja)}	45		°C/W
Storage and Operating Junction Temperature	T _{stg,Tj}	-55 to +150		°C

Note:

- Reverse Recovery Condition I_f =0.5A, I_r =1.0A, I_{rr} =0.25A
- Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
- Thermal Resistance from Junction to Ambient at 3/8" lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES UG2F THRU UG2G

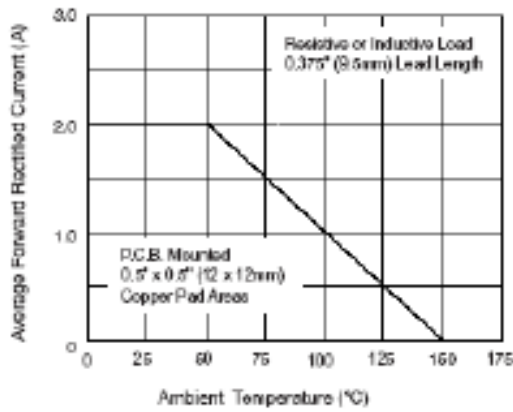


Figure 1. Maximum Forward Current Derating Curve

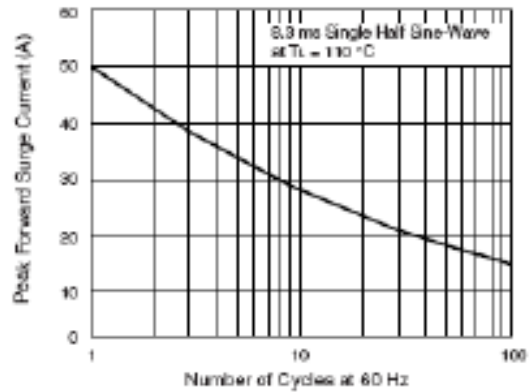


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current

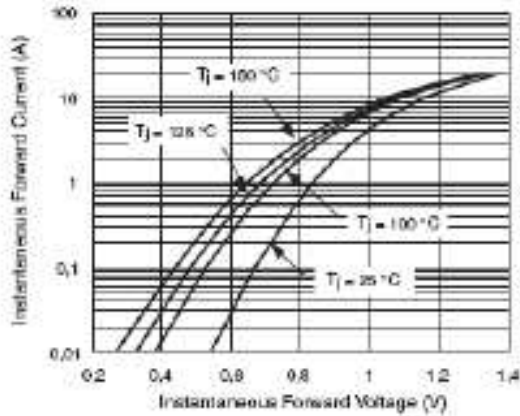


Figure 3. Typical Instantaneous Forward Characteristics

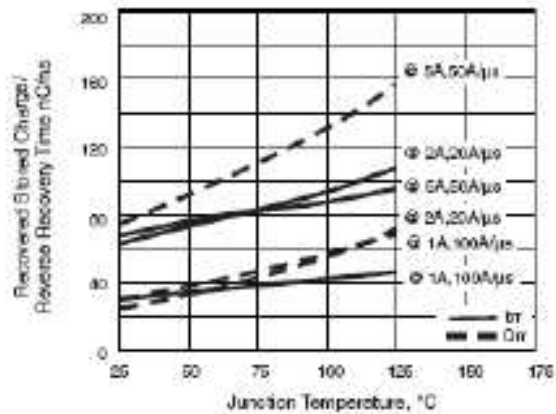


Figure 5. Reverse Switching Characteristics

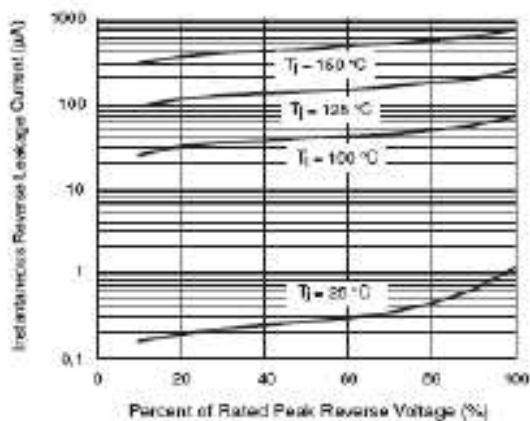


Figure 4. Typical Reverse Leakage Characteristics

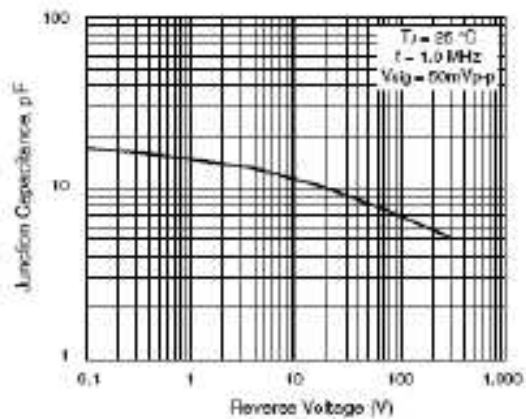


Figure 6. Typical Junction Capacitance