

UG2D

2.0 AMPS. Glass Passivated Super Fast Rectifiers

DO-15



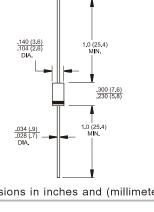


Features

- Plastic package has Underwrites Laboratories Flammability Classification 94V-0
- Ideally suited for use in very high frequency switching power supplies, inverters and as free wheeling diodes
- Ultrafast recovery time for high efficiency
- Excellent high temperature switching
- Glass passivated junction
- High temperature soldering guaranteed: 260°C/10seconds/.375",(9.5mm) lead lengths at 5lbs.,(2.3kg) tension
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- Case: DO-15 molded plastic
- Terminals: Pure tin plated leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- Mounting position:Any
- Weight:0.33gram



Dimensions in inches and (millimeters)



Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	UG2D	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	200	V
Maximum RMS Voltage	V _{RMS}	140	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current (FIG.1)	F(AV)	2	Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	80	А
Maximum Instantaneous Forward Voltage @ 2.0A / T _A =25°C @ 2.0A / T _A =125°C	VF	0.95 0.80	\
Maximum DC Reverse Current at Rated DC Blocking Voltage(Note 1) @ T_A =25°C @ T_A =125°C	İR	5 200	uA
Typical Junction Capacitance (Note 2)	Cj	35	рF
Typical Thermal Resistance (Note 3)	Reja	45	°C/W
Maximum Reverse Recovery Time (Note 4)	Trr	15	nS
Typical Reverse Recovery Time (Note 5)	Trr	25	nS
Operating Temperature Range	TJ	-55 to + 150	°C
Storage Temperature Range	Tstg	-55 to + 150	°C

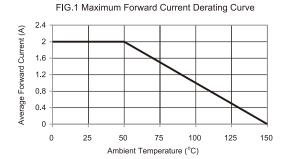
Note: 1. Pulse Test with PW=300 usec,1% Duty Cycle

- 2. Measured at 1 MHz and Applied Reverse Voltage of 4.0 V D.C.
- 3. Mount on Cu-Pad Size 10mm × 10mm on P.C.B.
- 4. Reverse Recovery Test Condition:IF=0.5A,IR=1.0A,IRR=0.25A
- 5. Reverse Recovery Test Condition:IF=2.0A,VR=30V,dI/dt=50A/us,Irr=10% IRM for Measurement of trr

Version: B10



RATINGS AND CHARACTERISTIC CURVES (UG2D)



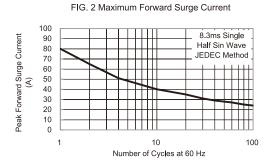
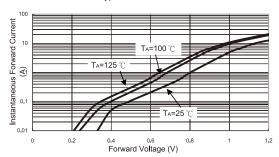
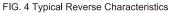


FIG. 3 Typical Forward Characteristics





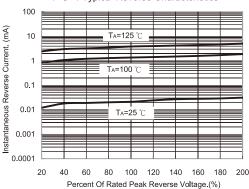


FIG. 5 Typical Junction Capacitance

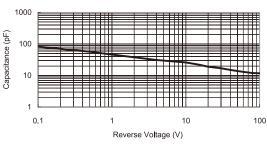
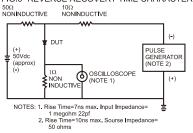
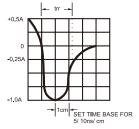


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Taiwan Semiconductor: