UG3003-UG3004(LS)

ULTRA FAST GLASS PASSIVATED RECTIFIERS

REVERSE VOLTAGE – 200 to 400 Volts FORWARD CURRENT – 3.0 Amperes

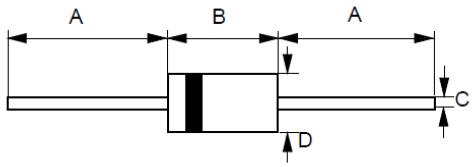
FEATURES

- Glass passivated chip
- Ultra fast switching for high efficiency
- Low reverse leakage current
- Low forward voltage drop
- High current capability
- Easily cleaned with Freon, Alcohol, Chlorothene and similar solvents
- Plastic material has UL flammability classification 94V-0
- **Lead-Free Finish; RoHS Compliant (Notes 1 & 2)**
- **Halogen and Antimony Free. "Green" Device (Note 3)**

MECHANICAL DATA

- Package : JEDEC DO-201AD molded plastic
- Polarity : Color band denotes cathode
- Weight : 0.04 ounces, 1.1 grams
- Mounting position : Any

DO-201AD



DO-201AD		
Dim	Min.	Max.
A	25.4	-
B	7.30	9.50
C	1.20	1.30
D	4.80	5.30
All Dimensions in millimeter		

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

PARAMETER		SYMBOL	UG3003	UG3004	UNIT
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	200	400	V
Maximum RMS Voltage		V_{RMS}	140	280	V
Maximum DC Blocking Voltage		V_{DC}	200	400	V
Maximum Average Forward Rectified Current	@T_C=120°C	$I_{(AV)}$	2.0		A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)		I_{FSM}	125		A
Maximum forward Voltage at 3.0A DC		V_F	1.0	1.3	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T_J=25°C @T_J=100°C	I_R	5 100		uA
Maximum Reverse Recovery Time (Note 4)		t_{rr}	50		ns
Typical Junction Capacitance (Note 5)		C_T	60		pF
Typical Thermal Resistance (Note 6)		R_{thJA} R_{thJC} R_{thJL}	60 15 10		°C/W
Storage / Operating Temperature Range		T_{STG} ,T_J	-55 to +150		°C

Note :

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
4. Test condition of t_{rr}: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A.
5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
6. Thermal Resistance Junction to Ambient, case and lead.

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RATING AND CHARACTERISTIC CURVES
UG3003-UG3004

FIG.1 - FORWARD CURRENT DERATING CURVE

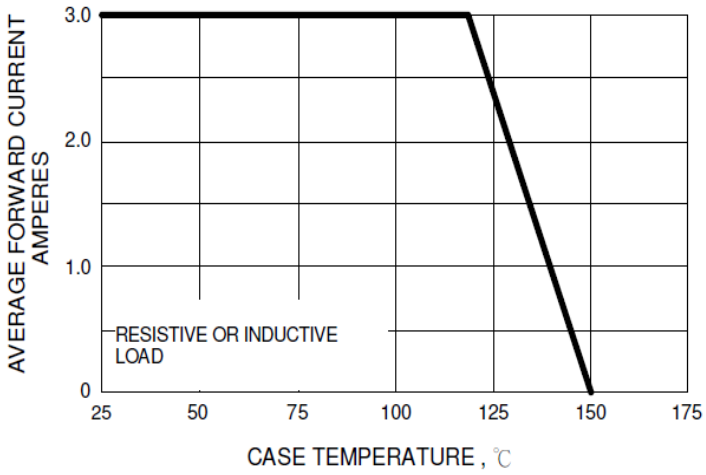


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

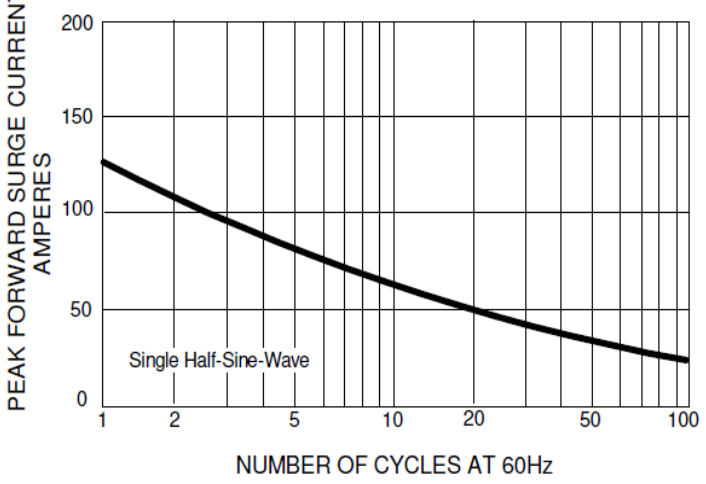


FIG.3 - TYPICAL JUNCTION CAPACITANCE

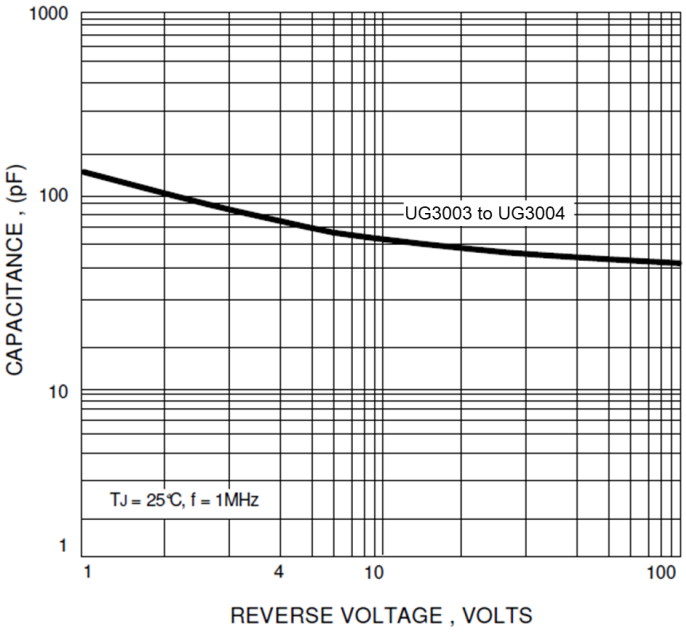
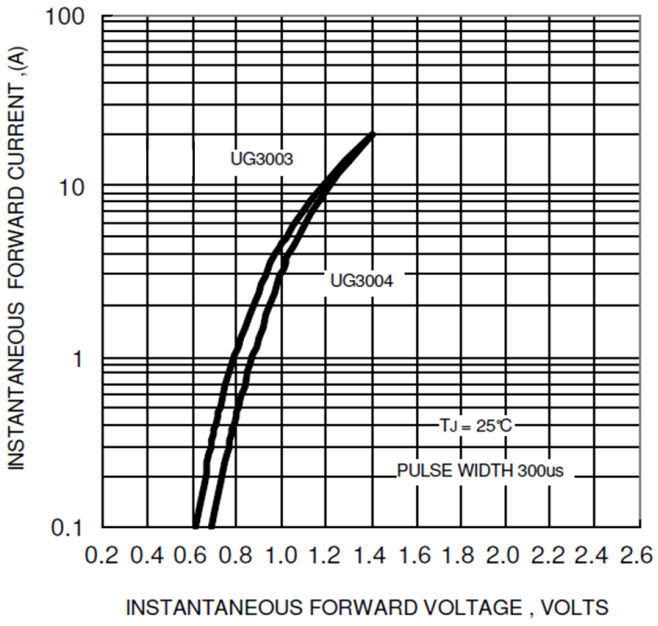


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

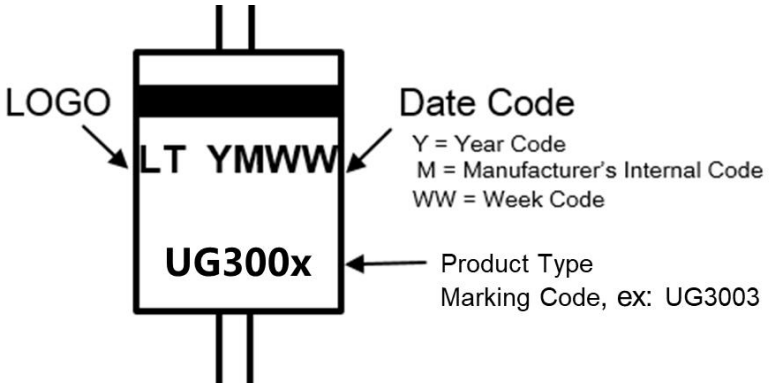


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Ordering Information :

Part Number	Package	Packing	
		Qty.	Carrier
UG3003_HF	DO-201AD	1200pcs	Tape & Reel
UG3004_HF	DO-201AD	1200pcs	Tape & Reel

Marking Information :



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