



GLASS PASSIVATED JUNCTION ULTRAFAST SWITCHING RECTIFIERS

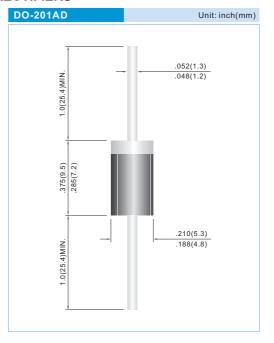
VOLTAGE 50 to 600 Volts CURRENT 3.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Exceeds environmental standards of MIL-S-19500/228.
- Ultra Fast switching for high efficiency.
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: Molded plastic, DO-201AD
- Terminals: Axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Band denotes cathode
- Mounting Position: Any
- Weight: 0.0395 ounce, 1.122 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

PARAMETER		UF300G	UF301G	UF302G	UF304G	UF306G	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	V
Maximum RMS Voltage		35	70	140	280	420	V
Maximum DC Blocking Voltage		50	100	200	400	600	V
Maximum Average Forward Current .375"(9.5mm) lead length at T_a =55°C	I _{F(AV)}	3.0					А
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	150					Α
Maximum Forward Voltage at 3.0A	V _F	1.0		1.3	1.7	V	
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =125°C	I _R	1.0 300					μΑ
Typical Junction capacitance (Note 1)	CJ	75 50			0	pF	
Typical Thermal Resistance(Note 2)	R _{eJA}	30					°C / W
Maximum Reverse Recovery Time (Note 3)	t _{rr}	50 10			100	ns	
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150				•	°C

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Thermal Resistance from Junction to Ambient and from Junction to lead length 0.375" (9.5mm) P.C.B. mounted.
- 3. Reverse Recovery Time $I_F \!\!=\! .5 A$, $I_R \!\!=\! 1 A$, $I_{rr} \!\!=\! .25 A$





RATING AND CHARACTERISTIC CURVES

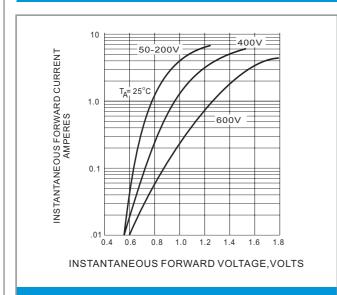


Fig.1 FORWARD CHARACTERISTICS

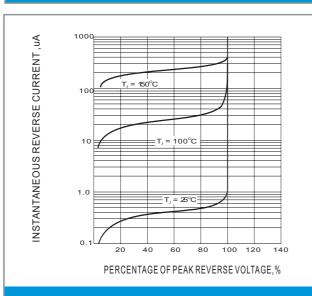


Fig.3 TYPICAL REVERSE LEAKAGE CHARACTERISTICS

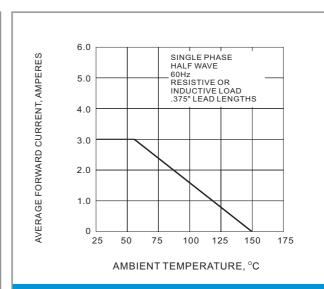


Fig.2 FORWARD CURRENT DERATING CURVE

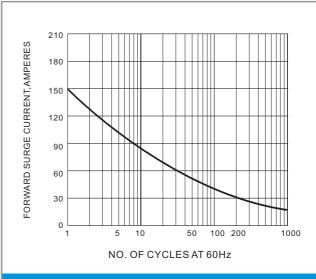


Fig.4 PEAK FORWARD SURGE CURRENT





Part No_packing code_Version

UF300G_AY_00001

UF300G_AY_10001

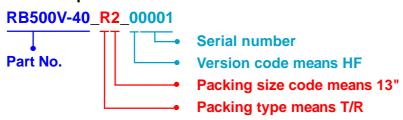
UF300G_B0_00001

UF300G_B0_10001

UF300G_R2_00001

UF300G_R2_10001

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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