



### **GLASS PASSIVATED JUNCTION ULTRAFAST RECOVERY RECTIFIER**

VOLTAGE 1000 Volt CURRENT 1 Ampere

#### **FEATURES**

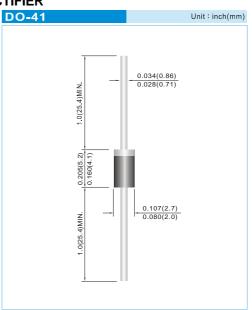
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Ultra Fast recovery for high efficiency.
- Acqire quality system certificate: TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive



Case: Molded plastic, DO-41

Terminals: Axial leads, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end Weight: 0.0118 ounce, 0.336 gram



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	1000	V
Maximum RMS Voltage		700	٧
Maximum DC Blocking Voltage	V <sub>DC</sub>	1000	V
Maximum Average Forward Current 0.375"(9.5mm) lead length at T <sub>A</sub> =55°C		1	А
Peak Forward Surge Current : 8.3ms single half sinewave superimposed on rated load	I <sub>FSM</sub>	30	А
Maximum Forward Voltage at 1A	V <sub>F</sub>	1.7	V
Maximum DC Reverse Current at Rated TJ=25°C DC Blocking Voltage TJ=125°C	I <sub>R</sub>	1 150	μΑ
Typical Junction Capacitance (Note 1)	CJ	17	pF
Typical Thermal Resistance (Note 2)	R <sub>eJA</sub>	60	°C / W
Maximum Reverse Recovery Time (Note 3)	t rr	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 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  $I_F=0.5A$ ,  $I_R=1A$ ,  $I_{rr}=0.25A$





### RATING AND CHARACTERISTIC CURVES

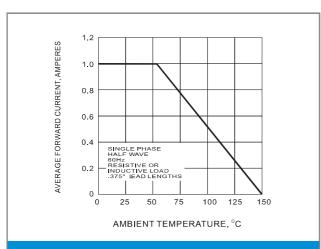


Fig.1 FORWARD CURRENT DERATING CURVE

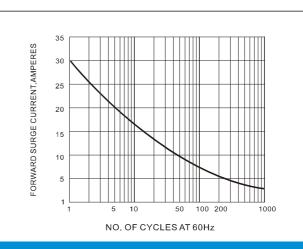


Fig.2 PEAK FORWARD SURGE CURRENT

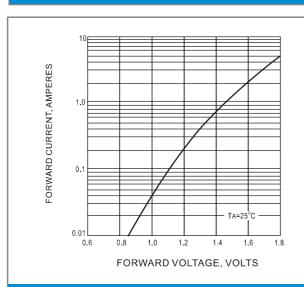


Fig.3 FORWARD CHARACTERISTICS

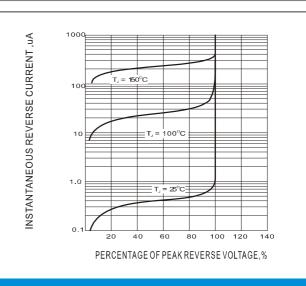


Fig.4-TYPICAL REVERSE CHARACTERISTIC

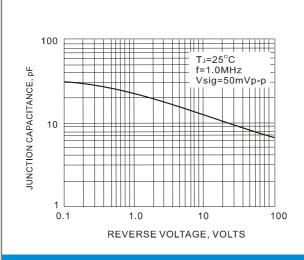


Fig.5 TYPICAL JUNCTION CAPACITANCE

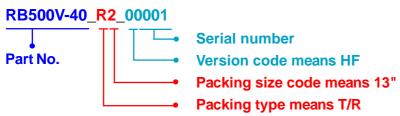




### Part No\_packing code\_Version

UF1010G-AU\_AY\_000A1 UF1010G-AU\_AY\_100A1 UF1010G-AU\_B0\_000A1 UF1010G-AU\_B0\_100A1 UF1010G-AU\_R2\_000A1 UF1010G-AU\_R2\_100A1

## For example:



Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1st Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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