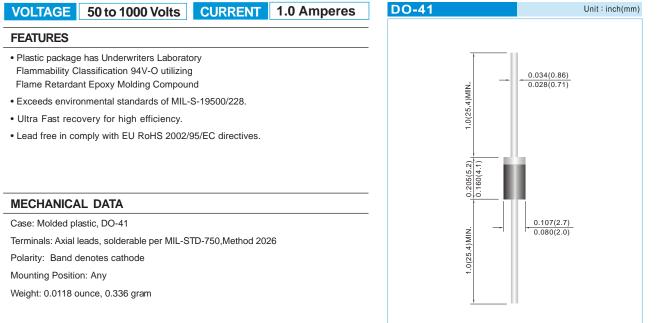


## **UF100G SERIES**

#### GLASS PASSIVATED JUNCTION ULTRAFAST RECOVERY RECTIFIER



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	UF100G	UF101G	UF102G	UF104G	UF106G	UF108G	UF1010G	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>rms</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Current .375"(9.5mm) lead length at TA=55°C	I <sub>F(AV)</sub>	1.0					A		
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load(JEDEC method)	I <sub>fsm</sub>	30					A		
Maximum Forward Voltage at 1.0A	V <sub>F</sub>		1.0		1.3		1.7		V
Maximum DC Reverse Current at Rated TJ=25°C DC Blocking Voltage TJ=125°C					1.0 150				μA
Typical Junction Capacitance (Note 1)	C」				17				pF
Typical Thermal Resistance (Note 2)	$R_{_{\theta JA}}$	60			°C / W				
Maximum Reverse Recovery Time (Note 3)	t "		5	0			100		ns
Operating Junction and Storage Temperature Range	T_,T <sub>stg</sub>	-55 to +150				°C			

#### NOTES:

1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

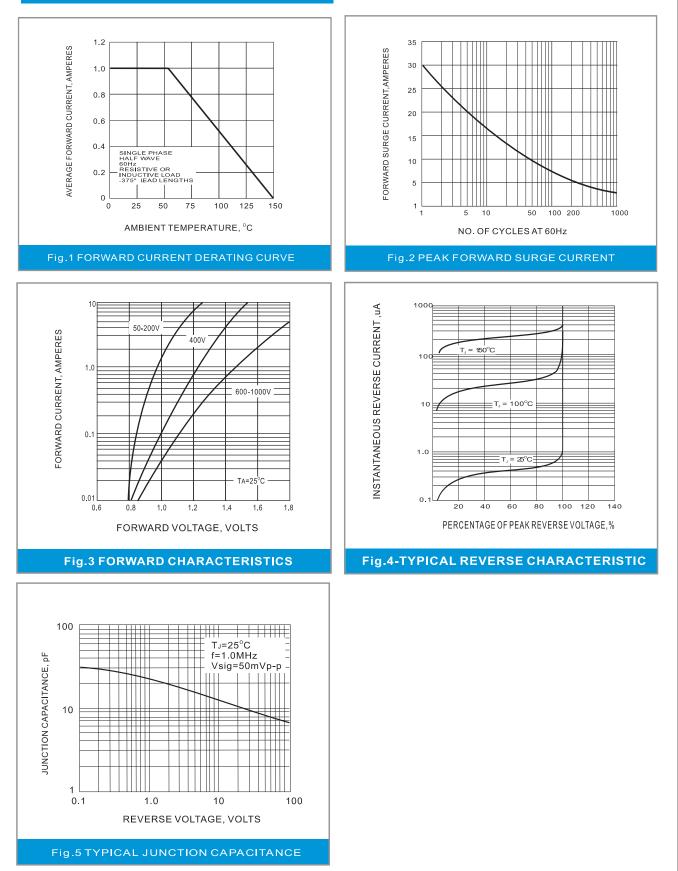
2. Thermal Resistance from Junction to Ambient and from Junction to lead length 0.375"(9.5mm) P.C.B. mounted.

3. Reverse Recovery Time  $I_{F} {=} .5 \text{A}$  ,  $I_{R} {=} 1 \text{A}$  ,  $I_{rr} {=} .25 \text{A}$ 



# **UF100G SERIES**

### RATING AND CHARACTERISTIC CURVES







### Part No\_packing code\_Version

UF100G_AY_00001
UF100G_AY_10001
UF100G_B0_00001
UF100G_B0_10001
UF100G_R2_00001
UF100G_R2_10001

## For example :

RB500V-40\_R2\_00001

- Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

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