



UF100G~UF110G ULTRA FAST RECOVERY RECTIFIER

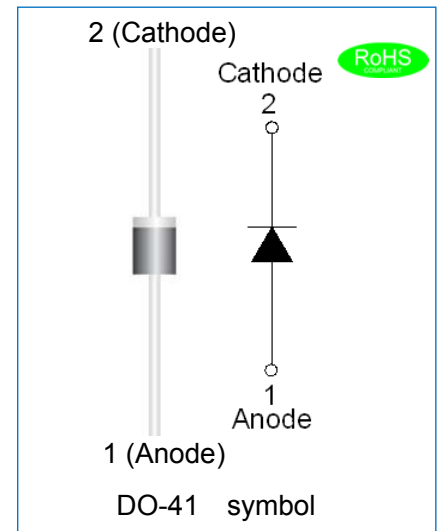
Rev.1.3

DESCRIPTION

- ✧ Plastic package has underwriters laboratory flammability classification 94V-0
- ✧ Glass passivated chip junction
- ✧ Lead free in comply with EU RoHS 2011/65/EU directives
- ✧ Ultrafast recovery time for high efficiency

MECHANICAL DATA

- ✧ Case: JEDEC DO-41 molded plastic
- ✧ Terminals: Solder plated, solderable per J-STD-002
- ✧ Polarity: Color band denotes cathode end
- ✧ Weight:0.30 gram



ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

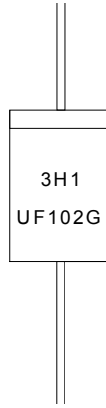
(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	UF100G	UF101G	UF102G	UF104G	UF106G	UF108G	UF110G	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward current at $T_A=75^\circ\text{C}$	$I_{F(AV)}$	1.0							A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30							A
Maximum forward voltage @ $I_F=1\text{A}$	V_F	1.0		1.3		1.7		V	
Maximum DC reverse current at rated DC blocking voltage	$T_j=25^\circ\text{C}$	5.0							μA
	$T_j=150^\circ\text{C}$	200							μA
Typical junction capacitance $V_R=4.0\text{V}$, $f=1\text{MHz}$	C_J	10				8			pF
Operating junction and storage temperature range	T_j, T_{stg}	-55 to +150							$^\circ\text{C}$
Maximum reverse recovery time $I_F=0.5\text{A}$, $I_R=1\text{A}$, $I_{rr}=0.25\text{A}$	t_{rr}	50				75			ns

THERMAL RESISTANCES

Symbol	Parameter	UF100G	UF101G	UF102G	UF104G	UF106G	UF108G	UF110G	Unit
$R_{th(j-a)}$	Junction to ambient	60							°C/W

MARKING



UF	Ultra Fast Recovery Rectifier
1	$I_{F(AV)}=1A$
02	$V_{RRM}:200V$
G	Package:DO-41

xH1: Month, 1、2、3 ~ 9、A、B、C

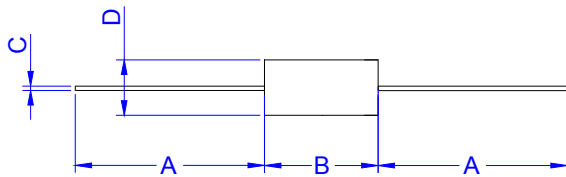
3x1:

2018	2019	2020	2021	2022	2023	2024
H	I	J	K	L	M	N
2025	2026	2027	2028	2029	2030	...
O	P	Q	R	S	T	...

3Hx: Batch number

PACKAGE MECHANICAL DATA

Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	25.40	-	1.000	-
B	4.90	5.30	0.193	0.209
C	0.69	0.89	0.027	0.035
D	2.40	2.80	0.095	0.110

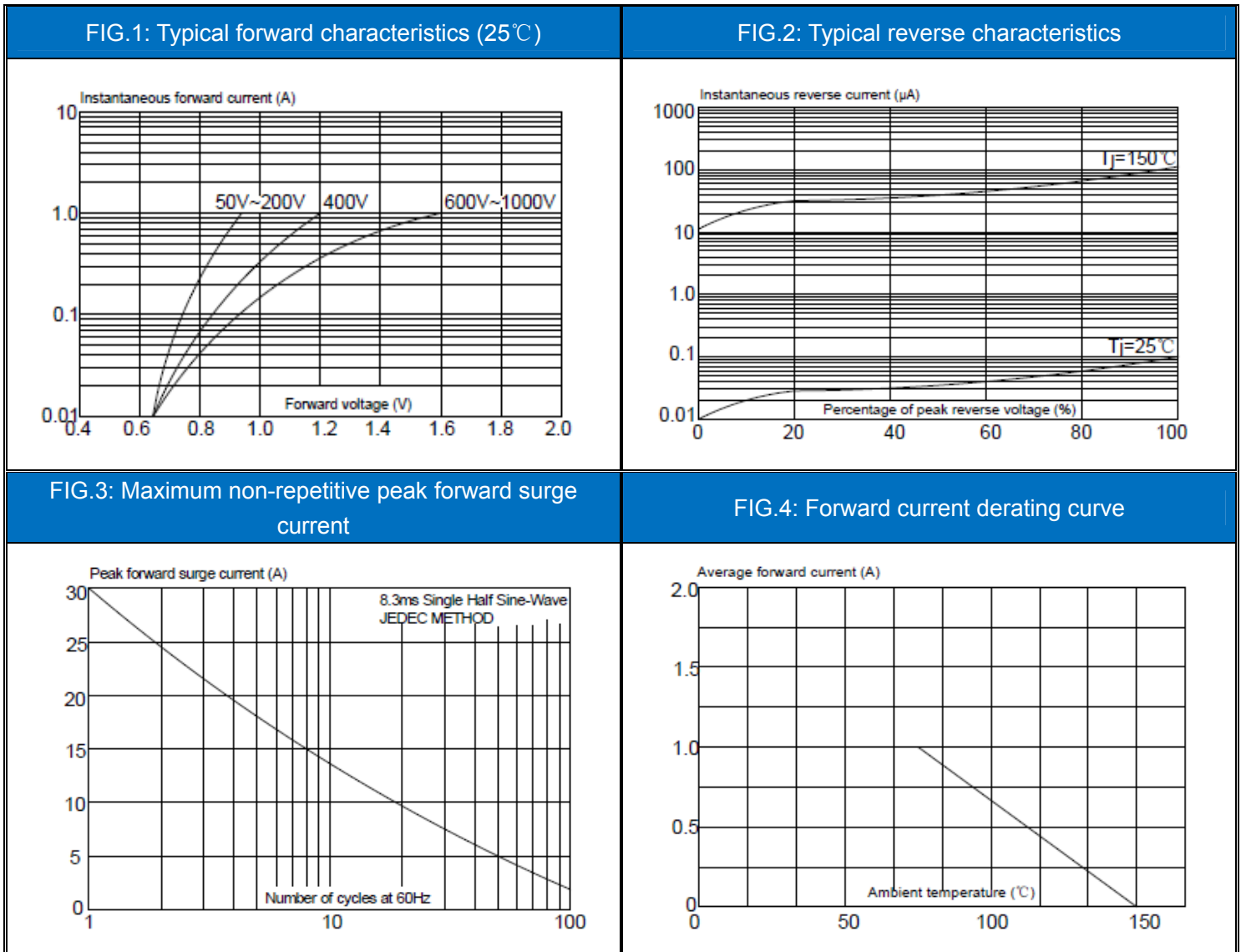


DO-41

PACKAGE INFORMATION-DO-41

OUTLINE	UNIT WEIGHT (g/PCS) typ.	INNER BOX (PCS)	PER CARTON (PCS)
Bulk	0.30	5,000	50,000

CHARACTERISTICS CURVE



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