

**UF1000FPL~UF1010FPL**
ULTRA FAST RECOVERY RECTIFIER**Preliminary**

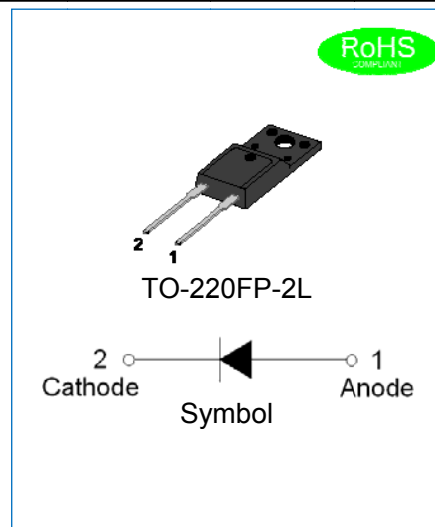
Rev.0.1

DESCRIPTION

- ✧ Plastic package has underwriters laboratory flammability classification 94V-0
- ✧ Exceeds environmental standards of MIL-S-19500/228
- ✧ Glass passivated chip junction
- ✧ Lead free in comply with EU RoHS 2011/65/EU directives
- ✧ Ultrafast recovery time for high efficiency

MECHANICAL DATA

- ✧ Case: TO-220FP-2L, molded plastic over passivated junction
- ✧ Terminals: Solderable per MIL-STD-750, method 2026
- ✧ Weight: 1.67gram

**ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS**

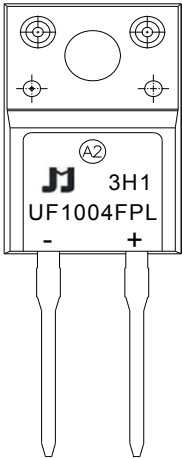
(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter		Symbol	UF1000 FPL	UF1001 FPL	UF1002 FPL	UF1004 FPL	UF1006 FPL	UF1008 FPL	UF1010 FPL	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 _L =100℃		I _{F(AV)}	10							A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	150							A
Maximum forward voltage@ I _F =10A		V _F	1.0			1.3	1.7			V
Maximum DC reverse current at rated DC blocking voltage	T _j =25℃	I _R	5							μA
	T _j =150℃		500							μA
Typical junction capacitance V _R =4.0V, f=1MHz		C _J	200				85			pF
Operating junction and storage temperature range		T _j , T _{stg}	-60 to +150							℃
Maximum reverse recovery time I _F =0.5A, I _R =1A, I _{rr} =0.25A		t _{rr}	50				75			ns

THERMAL RESISTANCES

Symbol	Parameter	UF1000 FPL	UF1001 FPL	UF1002 FPL	UF1004 FPL	UF1006 FPL	UF1008 FPL	UF1010 FPL	Unit
$R_{th(j-c)}$	Junction to case	4							°C/W

MARKING



UF	Ultra Fast Recovery Rectifier
10	$I_{F(AV)}=10A$
04	$V_{RRM}:400V$
FPL	Package:TO-220FP-2L

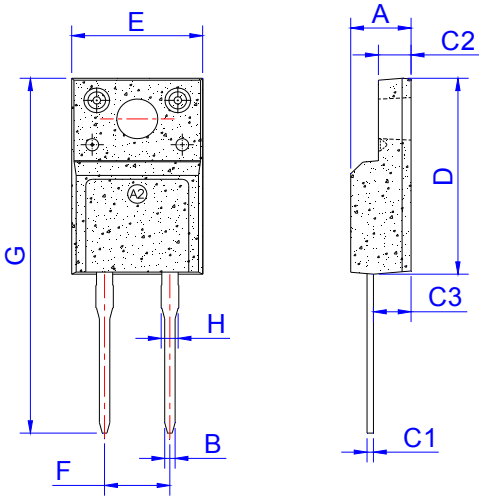
xH1: Month, 1、2、3 ~ 9、A、B、C

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



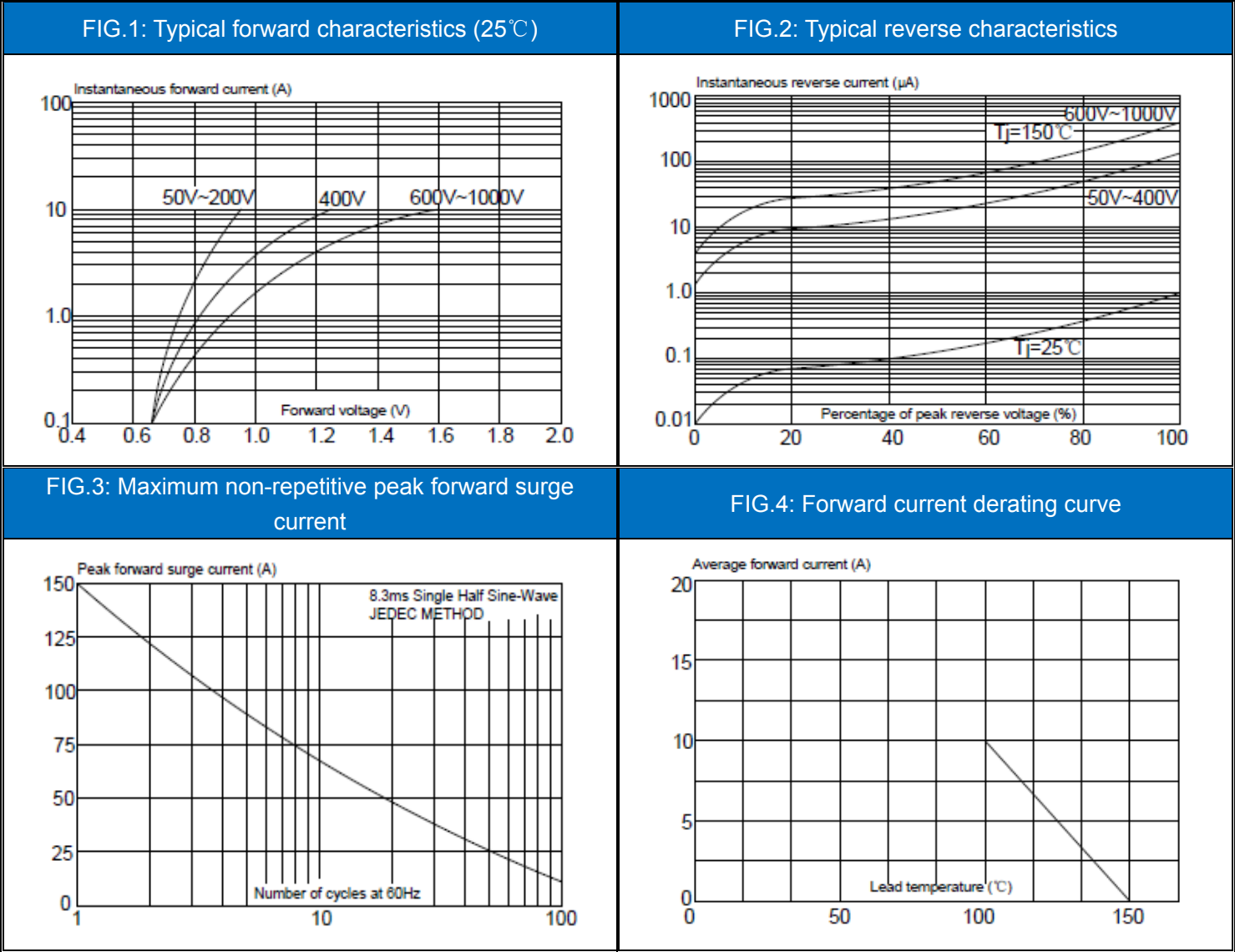
TO-220FP-2L

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.50	4.70	4.90	0.177	0.185	0.193
B	0.70	0.80	0.90	0.028	0.031	0.035
C1	0.40	0.50	0.60	0.016	0.020	0.024
C2	2.35	2.55	2.75	0.093	0.100	0.108
C3	2.15	2.35	2.55	0.085	0.093	0.100
D	15.55	15.85	16.15	0.612	0.624	0.636
E	9.86	10.16	10.46	0.388	0.400	0.412
F		5.08			0.200	
G	28.55	28.95	29.35	1.124	1.140	1.156
H	1.25	1.35	1.45	0.049	0.053	0.057

PACKAGE INFORMATION-TO-220FP-2L

OUTLINE	UNIT WEIGHT (g/PCS) typ.	TUBE (PCS)	PER CARTON (PCS)
TUBE	1.67	50	8,000

CHARACTERITICS CURVE



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