

JIEJIE MICROELECTRONICS CO., LTD.

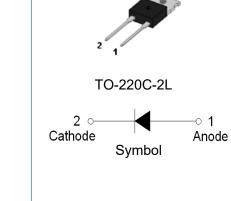
JPUR3006CL EPI PLANAR ULTRAFAST SOFT RECOVERY RECTIFIER

Rev.1.3

RoHS

DESCRIPTION

- Plastic package has underwriters laboratory flammability classification 94V-0
- ♦ Lead free in comply with EU RoHS 2011/65/EU directives
- ♦ Low reverse leakage current
- ♦ Ultrafast recovery time
- ♦ Epitaxial planar technology
- ♦ 5th Generation soft fast recovery characteristics
- ♦ Low recovery loss



MECHANICAL DATA

♦ Case: TO-220C-2L molded plastic over passivated junction

- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Weight:2 gram

ABSOLUTE MAXIMUM RATING (Rating at 25℃ ambient temperature unless otherwise specified.)

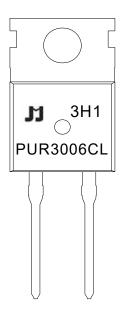
Parameter	Symbol	JPUR3006CL	Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	600	V	
Maximum DC blocking voltage	V _{DC}	600	V	
Average forward current at T _C =135°C	I _{F(AV)}	30	Α	
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		330	^	
Peak forward surge current: 10ms single half sine-wave superimposed on rated load	IFSM	300	A A	
Junction temperature and storage temperature range	Tj,Tstg	-55 to +175	$^{\circ}$	

Parameter			Min.	Тур.	Max.	Unit
Commend walks as	I _F =30A,T _j =25℃		-	1.35	1.6	V
Forward voltage	I _F =30A,T _j =150°C	V _F	-	1.1	-	V
D	V _R =600V,T _j =25°C		-	-	5	μА
Reverse current	V _R =600V,T _j =150°C	- I _R	-	-	400	
	I _F =1A,V _R =30V, dI _F /dt=200A/μs,T _j =25°C		-	28	45	ns
Reverse recovery time	I _F =30A,V _R =200V, dI _F /dt=200A/μs,T _j =25°C	t _{rr}	-	80	-	
	I _F =30A,V _R =200V, dI _F /dt=200A/μs,T _j =125°C		-	160	-	
Doverse recovery ourrent	I _F =30A,V _R =200V, dI _F /dt=200A/µs,T _j =25°C		-	7.5	-	А
Reverse recovery current	I _F =30A,V _R =200V, dI _F /dt=200A/µs,T _j =125°C	- I _{RM}	-	17.5	-	
Davage shares	I _F =30A,V _R =200V, dI _F /dt=200A/μs,T _j =25°C		- 350	-		
Reverse charge	I _F =30A,V _R =200V, dI _F /dt=200A/μs,T _j =125°C	Qr	-	1550	-	nC

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case		-	1	°C/W

MARKING



PUR	Planar Ultrafast Recovery Rectifier
30	I _{F(AV)} =30A
06	V _{RRM} :600V
CL	Package: TO-220C-2L

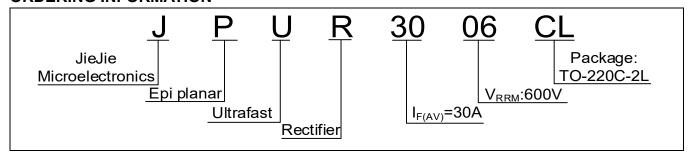
xH1: Month, 1/2/3~9/A/B/C

3**x**1:

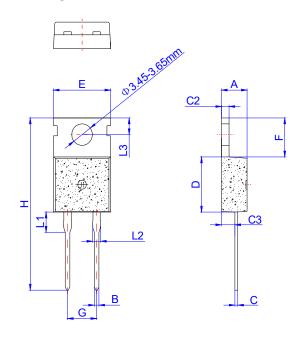
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	T	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

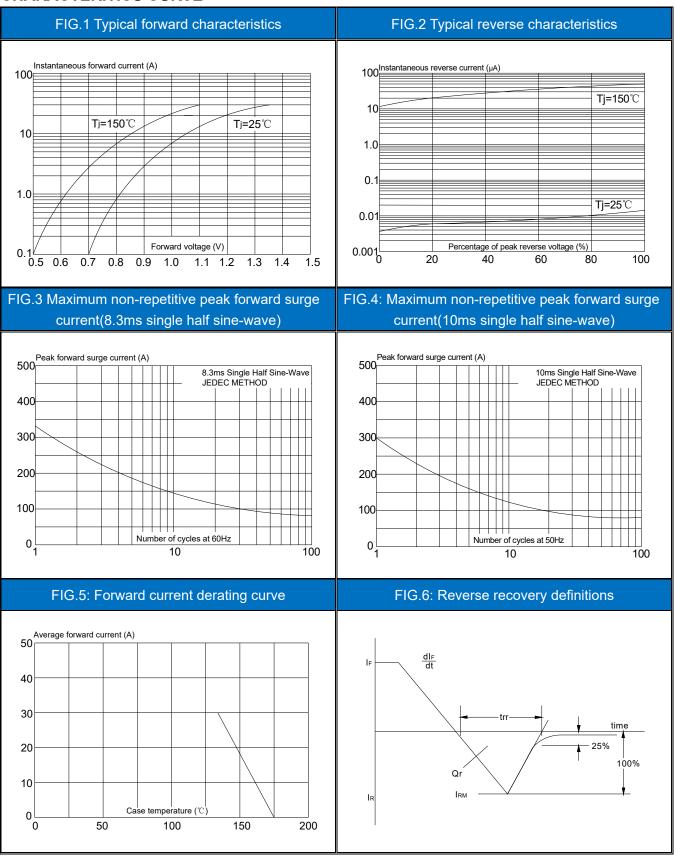


	Dimensions					
Ref.		Millimeters		Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	0.70		0.90	0.028		0.035
С	0.45		0.60	0.018		0.024
C2	1.23		1.32	0.048		0.052
СЗ	2.20		2.60	0.087		0.102
D	8.90		9.90	0.350		0.390
Е	9.90		10.3	0.390		0.406
F	6.30		6.90	0.248		0.272
G		5.08			0.200	
Н	28.0		29.8	1.102		1.173
L1		3.39			0.133	
L2	1.14		1.70	0.045		0.067
L3	2.65		2.95	0.104		0.116
Ф		3.6			0.142	

PACKAGE INFORMATION- TO-220C-2L

OUTLINE	UNIT WEIGHT	TUBE	PER CARTON
	(g/PCS) typ.	(PCS)	(PCS)
TUBE	2	50	5,000

CHARACTERITICS CURVE





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