

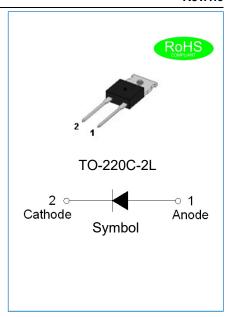
JIEJIE MICROELECTRONICS CO., LTD.

JEUR1006CL EPI ULTRAFAST SOFT RECOVERY RECTIFIER

Rev.1.6

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 and soft recovery characteristics
- ♦ Low recovery loss
- Applications for discontinuous current mode (DCM) power factor correction (PFC), home appliance power supply



MECHANICAL DATA

- ♦ Case: TO-220C-2L molded plastic over passivated junction
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Wehght:2 gram

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

Parameter	Symbol	JEUR1006CL	Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	600	V	
Maximum RMS voltage	V _{RMS}	420	V	
Maximum DC blocking voltage	V _{DC}	600	V	
Average forward current at T _C =120℃		10	Α	
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		132		
Peak forward surge current: 10ms single half sine-wave superimposed on rated load	IFSM	120	A	
Operating junction and storage temperature range	T_{J} , T_{STG}	-55 to +150	$^{\circ}$	

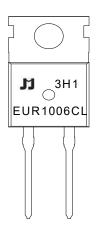
ELECTRICAL CHARACTERISTICS(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter		Symbol	Min.	Тур.	Max.	Unit
Farward valtage @L =104	T _j =25℃	\/	-	1.25	1.5	V
Forward voltage @I _F =10A	T _j =150℃	V _F	-	1.0	1.3	
DC reverse current at rated	T _j =25℃		-	-	5	μA
DC blocking voltage	T _j =150℃	I _R	-	-	200	
Reverse recovery time I_F =0.5A, I_R =1A, I_{rr} =0.25A		t _{rr}	-	-	50	ns

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	ı	2.5	°C/W

MARKING



EUR	EPI Ultrafast Recovery Rectifier
10	I _{F(AV)} =10A
06	V _{RRM} :600V
CL	Package: TO-220C-2L

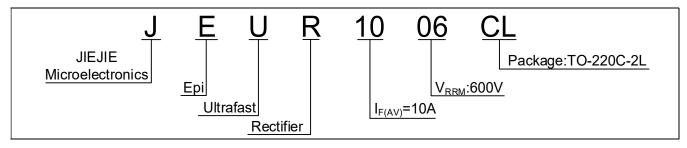
xH1: Month, 1/2/3~9/A/B/C

3<u>x</u>1:

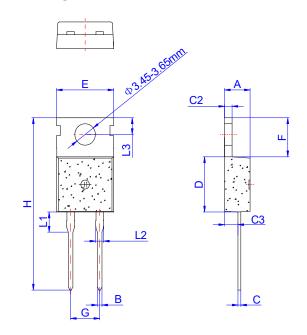
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

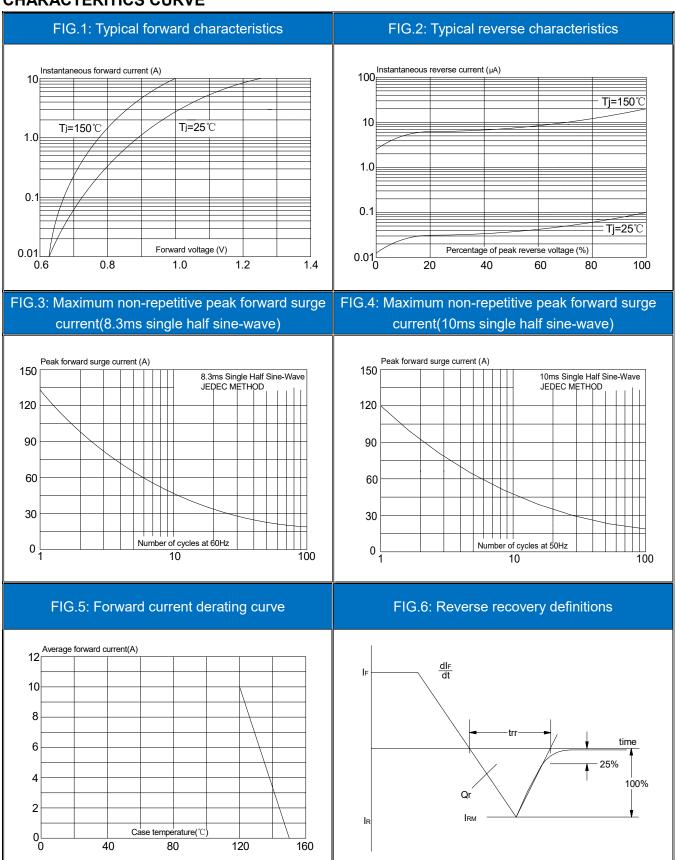


	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	0.70		0.90	0.028		0.035
С	0.45		0.60	0.018		0.024
C2	1.23		1.32	0.048		0.052
СЗ	2.20		2.60	0.087		0.102
D	8.90		9.90	0.350		0.390
Е	9.90		10.3	0.390		0.406
F	6.30		6.90	0.248		0.272
G		5.08			0.200	
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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