JIEJIE MICROELECTRONICS CO., LTD.

JEUR1606FPCT EPI ULTRAFAST RECOVERY RECTIFIER

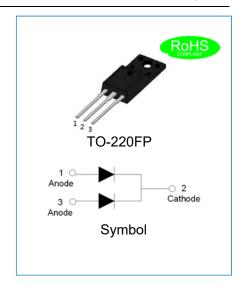
Rev.1.4

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

MECHANICAL DATA

- ♦ Case: TO-220FP molded plastic over passivated junction
- Terminals: Solder plated, solderable per J-STD-002
- ♦ Weight:2.07gram



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

Parameter	Symbol	JEUR1606FPCT	Unit
Maximum repetitive peak reverse voltage	VRRM	600	V
Maximum DC blocking voltage	V _{DC}	600	V
Maximum average forward current at Tc=90℃	I _{F(AV)}	16	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(per diode)	Ігѕм	100	А
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	${\mathbb C}$

ISOLATION CHARACTERISTICS

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
		50Hz≤f≤60Hz;RH≤65%; from				
V: (5146)	RMS isolation voltage	all pins to external heatsink;		2500	W	
V _{isol(RMS)}	Rivio isolation voltage	sinusoidal waveform;	-	-	2500	V
		clean and dust free				
C	legistics conscitones	from cathode to external		10		, F
Cisol	Isolation capacitance	heatsink -		10	-	pF

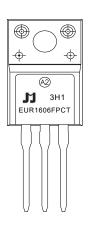
ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	I _F =8A,T _j =25℃	\/_	-	-	1.5	V
Forward voltage	ltage V _F −		-	-	1.2	V
Deverse current	V _R =600V,T _j =25℃		-	-	5	
Reverse current	V _R =600V,T _j =150°C	· I _R	-	-	200	μA
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	1	2	ı	°C/W

MARKING



EUR	EPI Ultrafast Recovery Rectifier
16	I _{F(AV)} =16A
06	V _{RRM} :600V
FP	Package:TO-220FP
СТ	Common cathode

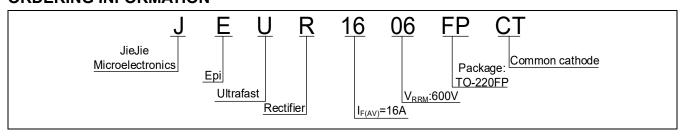
 $\underline{\mathbf{x}}$ H1: Month, 1、2、3 \sim 9、A、B、C

3<u>x</u>1:

2018	2019	2020	2021	2022	2023	2024
Н	I	٦	K		М	Ζ
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

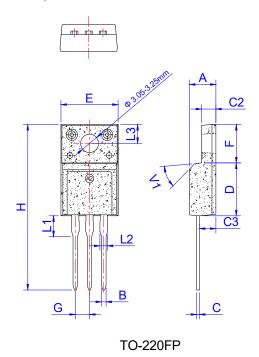
3Hx: Batch number

ORDERING INFORMATION





PACKAGE MECHANICAL DATA

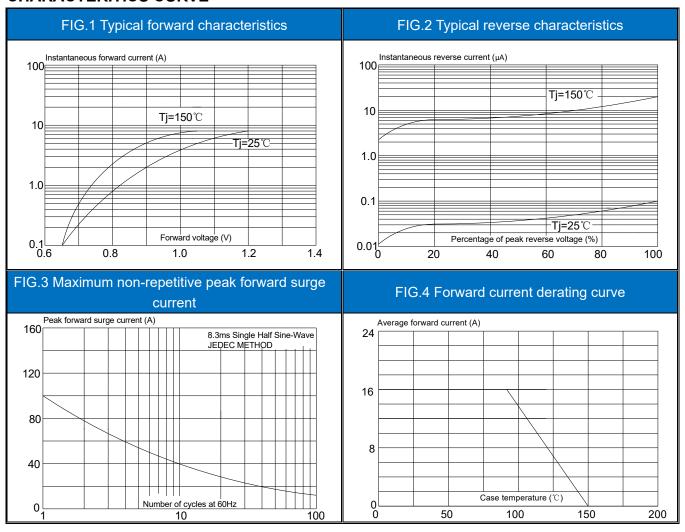


	Dimensions						
Ref.		Millimeters		Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.	
Α	4.50		4.90	0.177		0.193	
В	0.74	0.80	0.83	0.029	0.031	0.033	
С	0.47		0.65	0.019		0.026	
C2	2.45		2.75	0.096		0.108	
C3	2.60		3.00	0.102		0.118	
D	8.80		9.30	0.346		0.366	
E	9.80		10.4	0.386		0.410	
F	6.40		6.80	0.252		0.268	
G	2.40		2.70	0.094		0.106	
Н	28.0		29.8	1.102		1.173	
L1		3.63			0.143		
L2	1.14		1.70	0.045		0.067	
L3		3.30			0.130		
V1		45°			45°		

PACKAGE INFORMATION-TO-220FP

OUTLINE	UNIT WEIGHT (g/PCS) typ.	TUBE (PCS)	PER CARTON (PCS)
TUBE	2.07	50	5,000

CHARACTERITICS CURVE





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