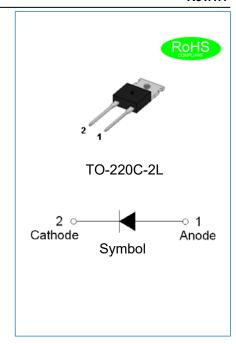
# JIEJIE MICROELECTRONICS CO., LTD.

# JEFR0808CL EPI FAST SOFT RECOVERY RECTIFIER

Rev.1.1

#### **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
- ♦ Fast recovery time and soft recovery characteristics
- ♦ Low recovery loss
- Applications for discontinuous current mode (DCM) power factor correction (PFC), High frequency switched-mode power supplies, and TV power supplies



#### **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°C ambient temperature unless otherwise specified.)

Parameter	Symbol	JEFR0808CL	Unit
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	800	V
Maximum DC blocking voltage	V <sub>DC</sub>	800	V
Average forward current at Tc=100℃	I <sub>F(AV)</sub>	8	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I <sub>FSM</sub>	125	А
Junction temperature and storage temperature range	$T_{j}$ , $T_{stg}$	-55 to +150	$^{\circ}$

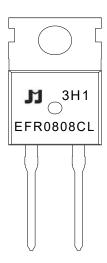
## **ELECTRICAL CHARACTERISTICS**(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	I <sub>F</sub> =8A,T <sub>j</sub> =25℃	\/_	-	-	1.7	V
Forward voltage	I <sub>F</sub> =8A,T <sub>j</sub> =150℃	V <sub>F</sub>	-	-	1.5	
Deverse everent	V <sub>R</sub> =800V,T <sub>j</sub> =25℃	1_	-	-	5	μΑ
Reverse current	V <sub>R</sub> =800V,T <sub>j</sub> =150°C	IR	-	-	200	
Reverse recovery time	I <sub>F</sub> =0.5A,I <sub>R</sub> =1A,I <sub>rr</sub> =0.25A	t <sub>rr</sub>	-	-	75	ns

## THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R <sub>th(j-c)</sub>	Thermal resistance from junction to case	-	2	-	°C/W

### **MARKING**



EFR	EPI Fast Recovery Rectifier
08	I <sub>F(AV)</sub> =8A
08	V <sub>RRM</sub> :800V
CL	Package: TO-220C-2L

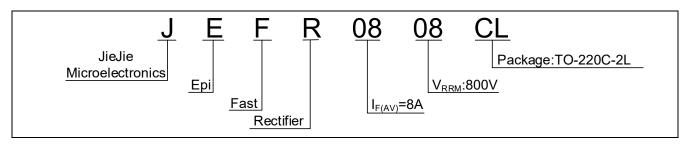
xH1: Month, 1/2/3~9/A/B/C

3**x**1:

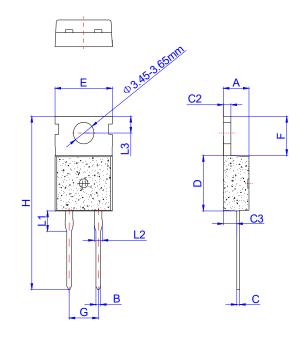
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

## **ORDERING INFORMATION**



# PACKAGE MECHANICAL DATA

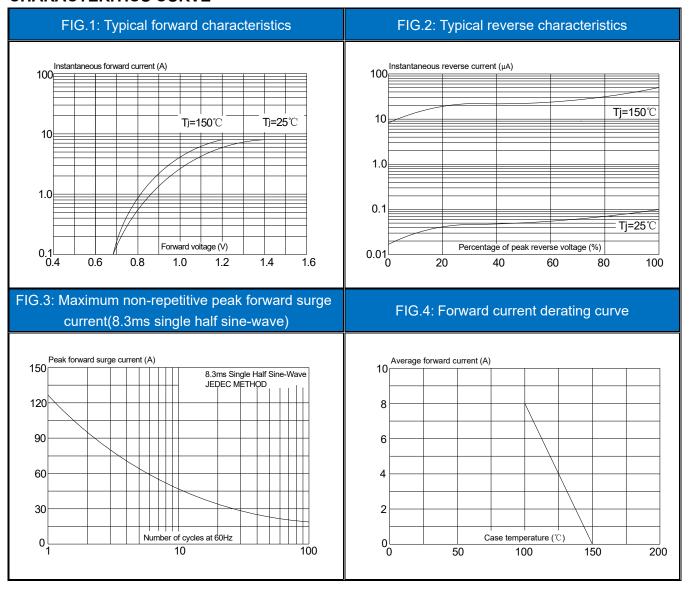


	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	0.70		0.90	0.028		0.035
С	0.45		0.60	0.018		0.024
C2	1.23		1.32	0.048		0.052
C3	2.20		2.60	0.087		0.102
D	8.90		9.90	0.350		0.390
E	9.90		10.3	0.390		0.406
F	6.30		6.90	0.248		0.272
G		5.08			0.200	
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**





JieJie products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable JieJie product documentation. Warranties granted by JieJie shall be deemed void for products used for any purpose not expressly set forth in applicable JieJie documentation. JieJie shall not be liable for any claims or damages arising out of products used in applications not expressly intended by JieJie as set forth in applicable JieJie documentation. The sale and use of JieJie products is subject to JieJie terms and conditions of sale, unless otherwise agreed by JieJie. Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co., Ltd. assumes no responsibility for the consequences of

Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement.

use without consideration for such information nor use beyond it.

Products and information provided in this document have no infringement of patents. Jiangsu JieJie assumes no responsibility for any infringement of other rights of third parties which may result from the use of such products and information.

This document is the 1.1st version which is made in 10-July-2025. This document supersedes and replaces all information previously supplied.

is a registered trademark of Jiangsu JieJie Microelectronics Co., Ltd.

Copyright ©2025 Jiangsu JieJie Microelectronics Co., Ltd. Printed All rights reserved.