JIEJIE MICROELECTRONICS CO., LTD.

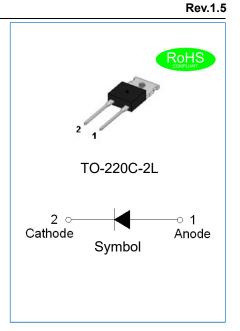
JECR1506CL EPI HYPERFAST SOFT RECOVERY RECTIFIER

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
- ♦ Hyperfast recovery time and soft recovery characteristics
- ♦ Low recovery loss
- Applications for active PFC in air conditioner,
 high frequency switched-mode power supplies,
 continuous current mode (CCM) power factor correction (PFC)

MECHANICAL DATA

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



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

Parameter	Symbol	JECR1506CL	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 _{mb} ≤121℃	I _{F(AV)}	15	А
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		200	A
Peak forward surge current: 10ms single half sine- wave superimposed on rated load	- I _{FSM}	180	
Operating junction and storage temperature range	T_{J}, T_{STG}	-55 to +150	°C

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

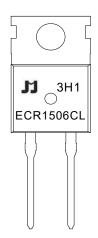
Parame	ter	Symbol	Min.	Тур.	Max.	Unit
	T j =25 ℃		-	2.6	3.2	V
Forward voltage @l _F =15A	T j =150 ℃	VF	-	1.5	2	
DC reverse current at rated	T j =25 ℃		-	-	5	μA
DC blocking voltage	T j =150 ℃	I _R	-	-	300	
	I _F =1A,V _R =30V, di/dt=200A/μs, Tj=25℃		-	13	18	ns
	I _F =15A,V _R =400V, di/dt=500A/μs, T _i =25℃		-	22	-	
Reverse recovery time	I _F =15A,V _R =200V, di/dt=200A/μs, T _i =25℃	t _{rr}	-	28	-	
	I _F =15A,V _R =200V, di/dt=200A/µs, T _i =125℃		-	39	-	
	I _F =15A,V _R =200V, di/dt=200A/μs, Tj=25℃		-	2.1	-	A
Peak reverse recovery current	I _F =15A,V _R =200V, di/dt=200A/µs, T _i =125℃	I _{RM}	-	5.8	-	
_	I _F =15A,V _R =200V, di/dt=200A/µs, T _i =25℃		-	30	-	nC
Recovered charge	I _F =15A,V _R =200V, di/dt=200A/µs, T _j =125℃	Q _r	-	115	-	

THERMAL RESISTANCES

Symbol	Parameter		Тур.	Max.	Unit
R _{th(j-mb)}	Thermal resistance from junction to mounting base	-	-	1.5	℃W
R _{th(j-a)}	Thermal resistance from junction to ambient	-	60	-	℃W

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MARKING



ECR	EPI Hyperfast Recovery Rectifier
15	I _{F(AV)} =15A
06	V _{RRM} :600V
CL	Package: TO-220C-2L

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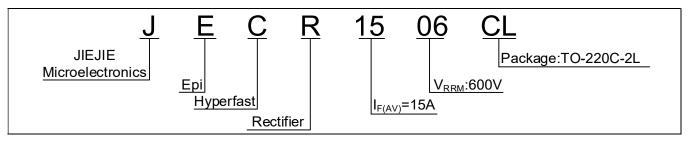
<u>x</u>H1: Month, 1/2/3~9/A/B/C

3<u>x</u>1:

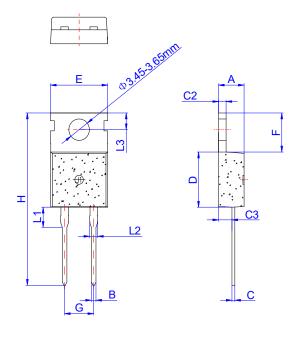
Ξ.							
	2018	2019	2020	2021	2022	2023	2024
	Н	I	J	K	L	М	Ν
	2025	2026	2027	2028	2029	2030	
	0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA



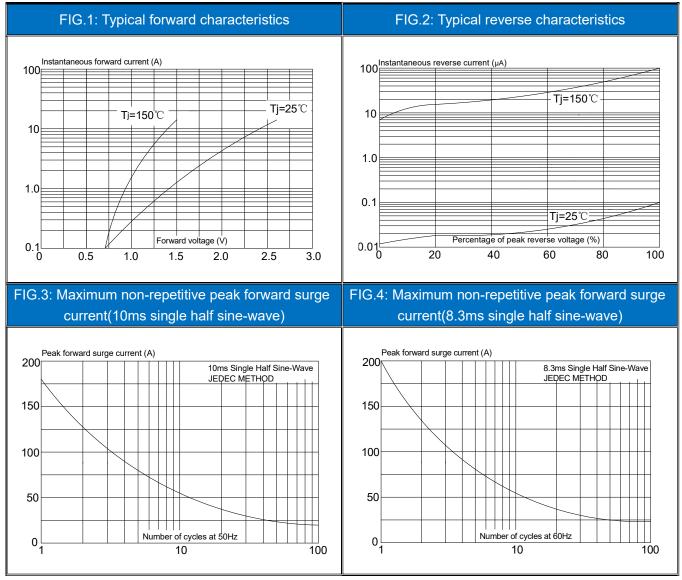
	Dimensions					
Ref.	Millimeters			Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	0.70		0.90	0.028		0.035
С	0.45		0.60	0.018		0.024
C2	1.23		1.32	0.048		0.052
C3	2.20		2.60	0.087		0.102
D	8.90		9.90	0.350		0.390
E	9.90		10.3	0.390		0.406
F	6.30		6.90	0.248		0.272
G		5.08			0.200	
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
Φ		3.6			0.142	



PACKAGE INFORMATION-TO-220C-2L

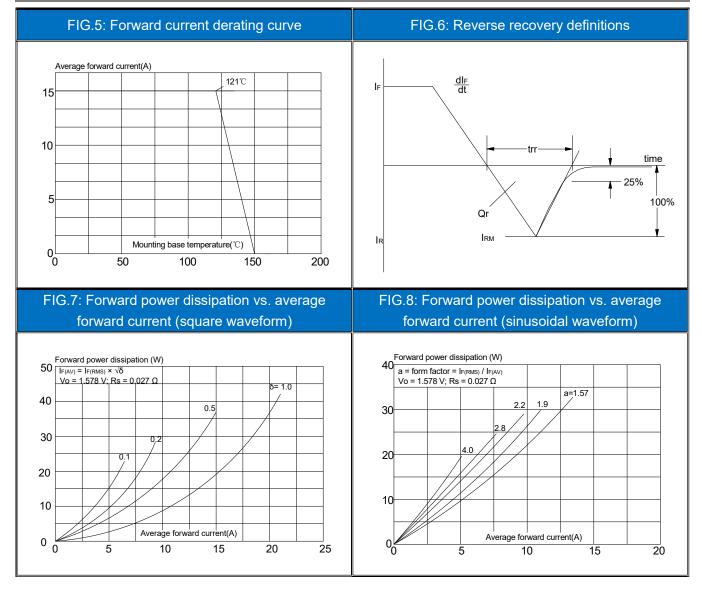
OUTLINE	UNIT WEIGHT	TUBE	PER CARTON
	(g/PCS) TYP	(PCS)	(PCS)
TUBE	2	50	5,000

CHARACTERITICS CURVE



JECR1506CL

JieJie Microelectronics Co., Ltd.



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