

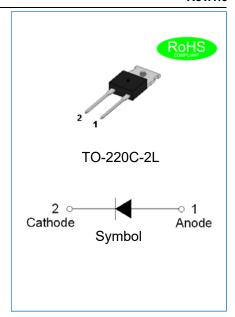
JIEJIE MICROELECTRONICS CO., LTD.

JECR1506CL EPI HYPERFAST 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
- ♦ 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℃ ambient temperature unless otherwise specified.)

Parameter	Symbol	JECR1506CL	Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	600	V	
Maximum DC blocking voltage	V _{DC}	600	V	
Average forward current at T _{mb} =121℃	I _{F(AV)}	F(AV) 15		
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load		200	^	
Peak forward surge current: 10ms single half sine- wave superimposed on rated load	IFSM	180	Α	
Operating junction and storage temperature range	T _J ,T _{STG}	-55 to +150	$^{\circ}$ C	

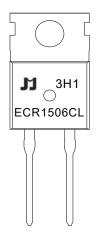


Parameter			Min.	Тур.	Max.	Unit
F	I _F =15A,T _j =25℃		-	2.6	3.2	V
Forward voltage	I _F =15A,T _j =150°C	VF	-	1.5	2	
_ ,	V _R =600V,T _j =25°C		-	-	5	μА
Reverse current	V _R =600V,T _j =150°C	· I _R	-	-	300	
	I _F =1A,V _R =30V, di/dt=200A/μs, T _j =25°C		-	13	18	ns
	I _F =15A,V _R =400V, di/dt=500A/μs, T _i =25°C	t _{rr} -	-	22	-	
Reverse recovery time	I _F =15A,V _R =200V, di/dt=200A/μs, T _j =25°C		-	28	-	
	I _F =15A,V _R =200V, di/dt=200A/μs, T _i =125°C		-	39	-	
	I _F =15A,V _R =200V, di/dt=200A/μs, T _j =25°C		-	2.1	-	A
Peak reverse recovery current	I _F =15A,V _R =200V, di/dt=200A/μs, T _i =125°C	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°C	Qr	-	115	-	

THERMAL RESISTANCES

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

MARKING



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

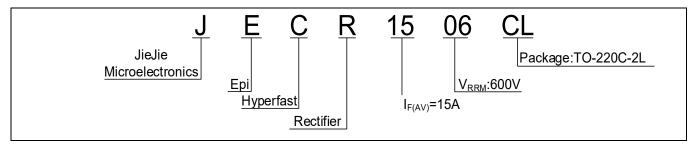
xH1: Month, 1/2/3~9/A/B/C

3<u>x</u>1:

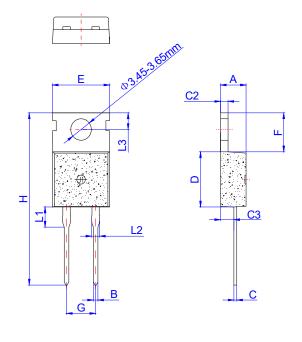
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

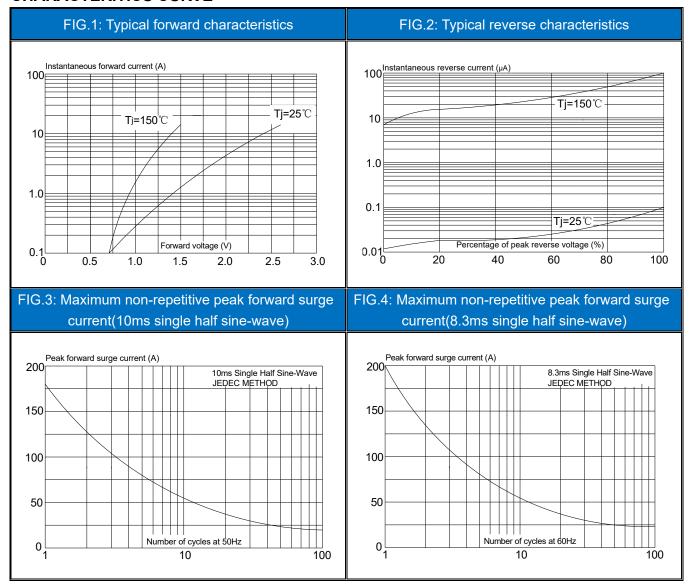


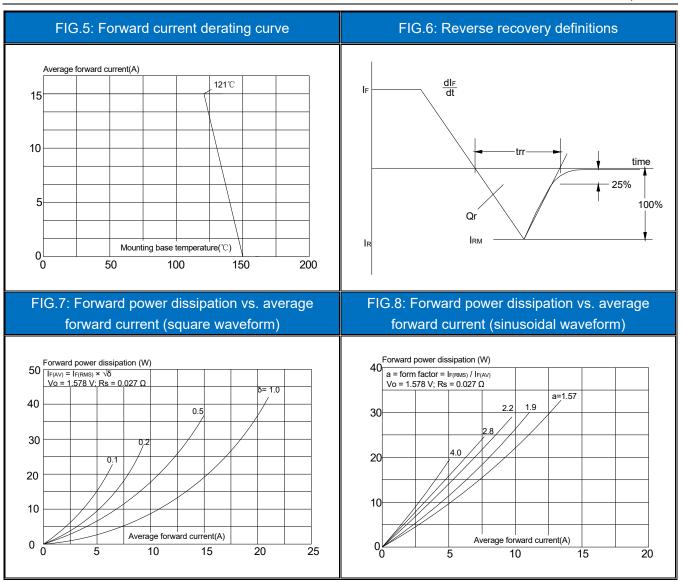
	Dimensions					
Ref.		Millimeter	rs	Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	0.70		0.90	0.028		0.035
С	0.45		0.60	0.018		0.024
C2	1.23		1.32	0.048		0.052
С3	2.20		2.60	0.087		0.102
D	8.90		9.90	0.350		0.390
E	9.90		10.3	0.390		0.406
F	6.30		6.90	0.248		0.272
G		5.08			0.200	
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 (g/PCS) TYP	TUBE (PCS)	PER CARTON (PCS)
TUBE	2	50	5,000

CHARACTERITICS CURVE







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