

JIEJIE MICROELECTRONICS CO., LTD.

JPCR1506CL EPI PLANAR HYPERFAST SOFT RECOVERY RECTIFIER

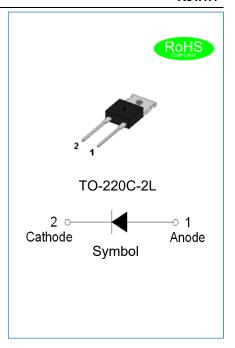
Rev.1.1

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
- ♦ Hyperfast recovery time
- ♦ Low recovery loss
- ♦ Epitaxial planar technology
- ♦ 5th Generation soft fast recovery characteristics
- Output rectifiers in high-frequency switched-mode power supplies



- ♦ 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	JPCR1506CL	Unit
Maximum repetitive peak reverse voltage	VRRM	600	V
Maximum RMS voltage	V _{RMS}	420	V
Maximum DC blocking voltage	V _{DC}	600	V
Average forward current at T _C =115℃	I _{F(AV)}	15	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		165	٨
Peak forward surge current: 10ms single half sine-wave superimposed on rated load	lfsm	150	А
Junction temperature and storage temperature range	T_{j} , T_{stg}	-55 to +175	${\mathbb C}$

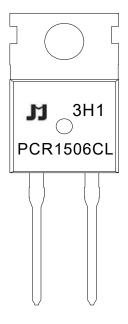


Parameter			Min.	Тур.	Max.	Unit
Famusad valte as	I _F =15A,T _j =25℃		-	2	2.5	V
Forward voltage	I _F =15A,T _j =150℃	V _F	-	1.35	-	V
	V _R =600V,T _j =25℃		-	-	5	μА
Reverse current	V _R =600V,T _j =150°C	I _R	-	-	300	
	I _F =1A,V _R =30V, dI _F /dt=200A/µs,T _j =25°C	t _{rr}	-	20	-	ns
Reverse recovery time	I _F =15A,V _R =200V, dI _F /dt=200A/µs,T _j =25°C		-	42	-	
	I _F =15A,V _R =200V, dI _F /dt=200A/µs,T _j =125°C		-	95	-	
Poverse receivery current	I _F =15A,V _R =200V, dI _F /dt=200A/µs,T _j =25℃	1	-	3	-	A
Reverse recovery current	I _F =15A,V _R =200V, dI _F /dt=200A/µs,T _j =125°C	· I _{RM}	-	8.5	-	
Danasakana	I _F =15A,V _R =200V, dI _F /dt=200A/µs,T _j =25℃		- 75	75	-	
Reverse charge	I _F =15A,V _R =200V, dI _F /dt=200A/µs,T _j =125°C	Q _r	-	450	-	nC

THERMAL RESISTANCES

Symbol	Parameter		Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case		-	2	°C/W

MARKING



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

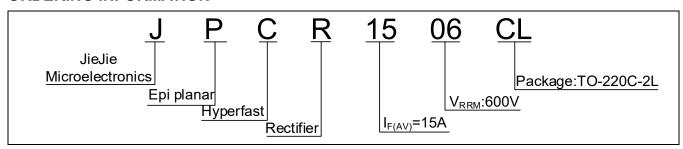
 $\underline{\mathbf{x}}$ H1: Month, 1、2、3 \sim 9、A、B、C

3<u>x</u>1:

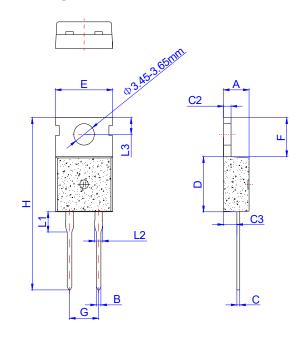
2018	2019	2020	2021	2022	2023	2024
Н	ı	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

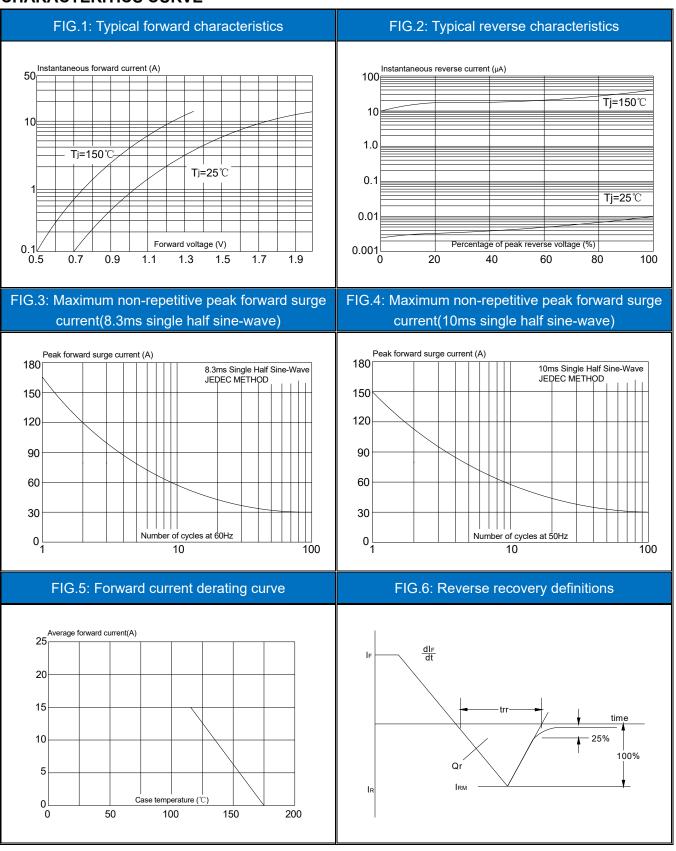


	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	0.70		0.90	0.028		0.035
С	0.45		0.60	0.018		0.024
C2	1.23		1.32	0.048		0.052
C3	2.20		2.60	0.087		0.102
D	8.90		9.90	0.350		0.390
Е	9.90		10.3	0.390		0.406
F	6.30		6.90	0.248		0.272
G		5.08			0.200	
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 (g/PCS) typ.	TUBE (PCS)	PER CARTON (PCS)
TUBE	2	50	5,000

CHARACTERITICS CURVE





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