JIEJIE MICROELECTRONICS CO., LTD.

JEER3006CL EPI SUPERFAST RECOVERY RECTIFIER

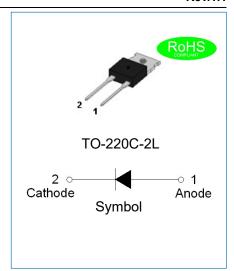
Rev.1.1

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
- Superfast recovery time and soft recovery characteristics
- ♦ Low recovery loss

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℃ case temperature unless otherwise specified.)

Parameter	Symbol	JEER3006CL	Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	600	V	
Maximum RMS voltage	VRMS	420	V	
Maximum DC blocking voltage	V _{DC}	600	V	
Average forward current at T _C =100℃	I _{F(AV)}	30	Α	
Peak forward surge current: 10ms single half sine-wave superimposed on rated load		180	٨	
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	200	А	
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}$	

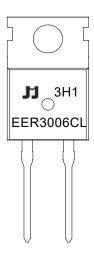
ELECTRICAL CHARACTERISTICS(Rating at 25° C case temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Farmer of the second second	T _j =25℃	.,	-	1.65	2.0	٧
Forward voltage @l _F =30A	T _j =150℃	V _F	-	1.35	-	
Reverse current at rated DC	Tj=25℃		-	-	5	μA
blocking voltage	T _j =150°C	- I _R	-	-	400	
	I _F =0.5A,I _R =1A,I _{rr} =0.25A		-	-	35	ns
	I _F =30A,V _R =30V, di/dt=200A/μs,T _j =25°C		-	41	90	
Reverse recovery time	I _F =30A,V _R =200V, di/dt=200A/μs,T _j =25°C	t _{rr}	-	51	-	
	I _F =30A,V _R =200V, di/dt=200A/µs,T _j =125℃		-	90	-	
Dook rovers recovery current	I _F =30A,V _R =200V, di/dt=200A/μs, T _j =25°C	_	-	5.5	-	Α
Peak reverse recovery current	I _F =30A,V _R =200V, di/dt=200A/μs, T _j =125°C	l _{RM}	-	12.5	-	
Page verad charge	I _F =30A,V _R =200V, di/dt=200A/μs, T _j =25°C		-	160	-	nC
Recovered charge	I _F =30A,V _R =200V, di/dt=200A/μs, T _j =125℃	Q_r	-	580	-	

THERMAL RESISTANCES

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

MARKING



EER	EPI Superfast Recovery Rectifier
30	I _{F(AV)} =30A
06	V _{RRM} :600V
CL	Package: TO-220C-2L

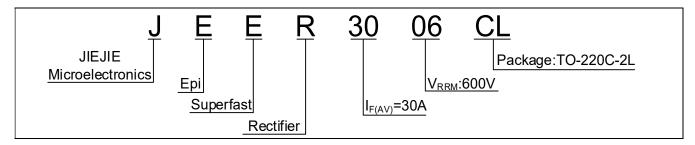
 $\underline{\mathbf{x}}$ H1: Month, 1, 2, 3 \sim 9, A, B, C

3**x**1

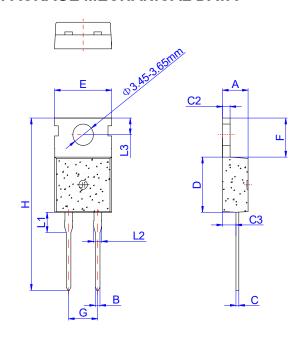
J	<u>∞.</u> 1.							
	2018	2019	2020	2021	2022	2023	2024	
	Н	I	J	K	L	М	N	
	2025	2026	2027	2028	2029	2030		
	0	Р	Q	R	S	Т		

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

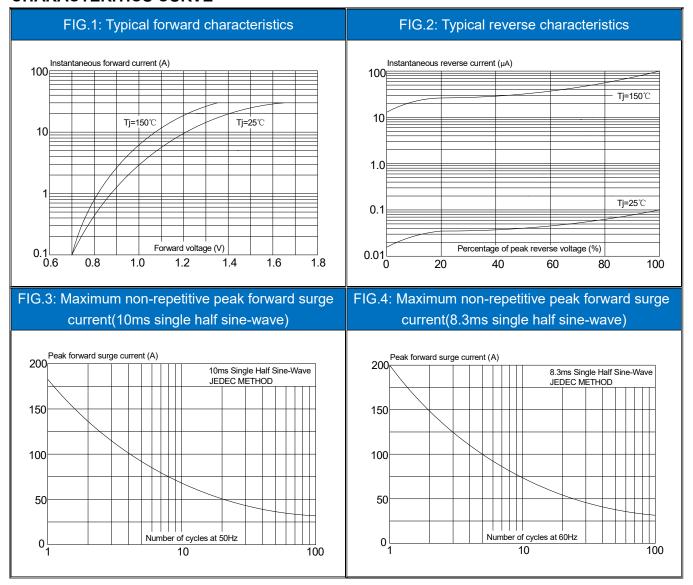


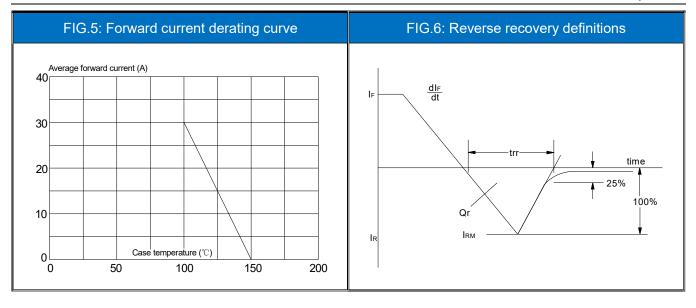
	Dimensions					
Ref.		Millimeters		Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	0.70		0.90	0.028		0.035
С	0.45		0.60	0.018		0.024
C2	1.23		1.32	0.048		0.052
СЗ	2.20		2.60	0.087		0.102
D	8.90		9.90	0.350		0.390
Е	9.90		10.3	0.390		0.406
F	6.30		6.90	0.248		0.272
G		5.08			0.200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

CHARACTERITICS CURVE





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