

JIEJIE MICROELECTRONICS CO., LTD.

JEER1604CL EPI SUPERFAST RECOVERY RECTIFIER

Rev.1.1

DESCRIPTION

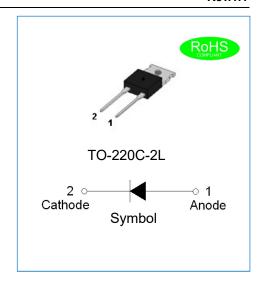
- Plastic package has underwriters laboratory flammability classification 94V-0
- ♦ Lead free in comply with EU RoHS 2011/65/EU directives
- ♦ Low reverse leakage current
- ♦ Superfast recovery time and soft recovery characteristics
- ♦ Low recovery loss

MECHANICAL DATA

♦ Case: TO-220C-2L molded plastic

→ Terminals: Solder plated, solderable per J-STD-002

♦ Weight: 2 gram



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

Parameter	Symbol	JEER1604CL	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	400	V
Maximum RMS voltage	VRMS	280	V
Maximum DC blocking voltage	V _{DC}	400	V
Maximum average forward rectified current at T _C =100 ℃	I _{F(AV)}	16	Α
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	$^{\circ}$

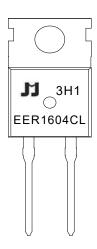
ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Famurand valtage	I _F =16A,T _j =25℃	V _F	-	-	1.3	V
Forward voltage	I _F =16A,T _j =150°C		-	-	1.1	
Maximum DC reverse current	T _j =25℃	· I _R	-	-	5	μΑ
at rated DC blocking voltage	T _j =150℃		-	-	300	
Maximum reverse recovery time	I _F =0.5A,I _R =1.0A, I _{rr} =0.25A	t _{rr}	-	-	35	ns

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	2.0	-	°C/W

MARKING



EER	EPI Superfast Recovery Rectifier
16	I _{F(AV)} =16A
04	V _{RRM} :400V
CL	Package: TO-220C-2L

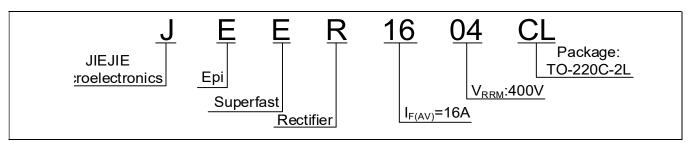
 $\underline{\mathbf{x}}$ H1: Month, 1, 2, 3 \sim 9, A, B, C

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	T	

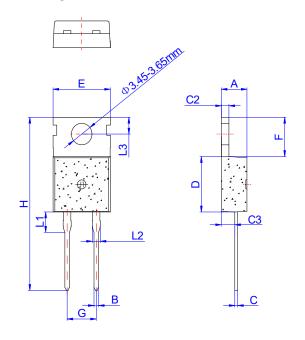
3Hx: Batch number

ORDERING INFORMATION





PACKAGE MECHANICAL DATA

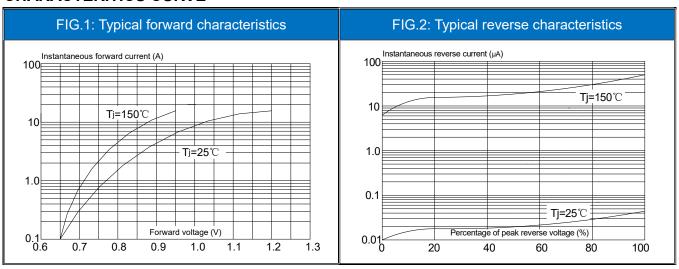


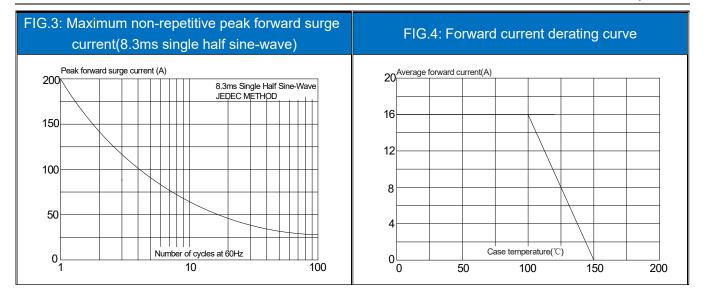
	Dimensions					
Ref.	Millimeters			Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	0.70		0.90	0.028		0.035
С	0.45		0.60	0.018		0.024
C2	1.23		1.32	0.048		0.052
C3	2.20		2.60	0.087		0.102
D	8.90		9.90	0.350		0.390
E	9.90		10.3	0.390		0.406
F	6.30		6.90	0.248		0.272
G		5.08			0.200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

CHARACTERITICS CURVE





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