

JIEJIE MICROELECTRONICS CO., LTD.

JEER2002FPL EPI SUPERFAST RECOVERY RECTIFIER

Rev.1.4

DESCRIPTION

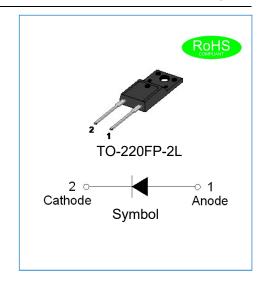
- Plastic package has underwriters laboratory flammability classification 94V-0
- ♦ Lead free in comply with EU RoHS 2011/65/EU directives
- ♦ Low reverse leakage current
- ♦ Superfast recovery time and soft recovery characteristics
- ♦ Low recovery loss



♦ Case: TO-220FP-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	JEER2002FPL	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	200	V
Maximum RMS voltage	V _{RMS}	140	V
Maximum DC blocking voltage	V _{DC}	200	V
Average forward current at T _C =100°C	I _{F(AV)}	20	Α
Peak forward surge current: 8.3ms single half sine- wave superimposed on rated load	I _{FSM}	200	Α
Operating junction and storage temperature range	T_{j}, T_{stg}	-55 to +150	$^{\circ}$

ISOLATION CHARACTERISTICS

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
		50Hz≤f≤60Hz;RH≤65%;				
		from all pins to external				
V _{isol(RMS)}	RMS isolation voltage	heatsink;	-	-	2500	V
		sinusoidal waveform;				
		clean and dust free				
	Isolation capacitance	from cathode to external	-	40	-	
C_{isol}		heatsink		10		pF

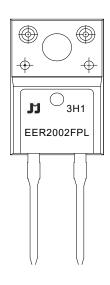
ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

Parameter		Symbol	Min.	Тур.	Max.	Unit
Forward voltage @I _F =20A	T _j =25℃	V _F	-	-	1.1	V
Reverse current at rated DC	T _j =25℃		-	-	5	
blocking voltage	T _j =150℃	I IR	I _R	-	300	μA
Reverse recovery time	I _F =0.5A,I _R =1A, 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	-	3	-	°C/W

MARKING



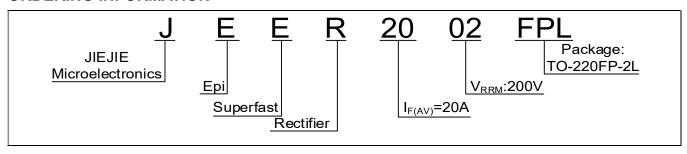
EER	EPI Superfast Recovery Rectifier
20	I _{F(AV)} =20A
02	V _{RRM} :200V
FPL	Package: TO-220FP-2L

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

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

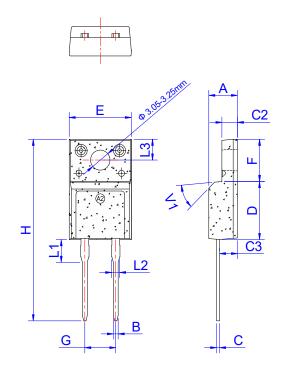
3Hx: Batch number

ORDERING INFORMATION





PACKAGE MECHANICAL DATA

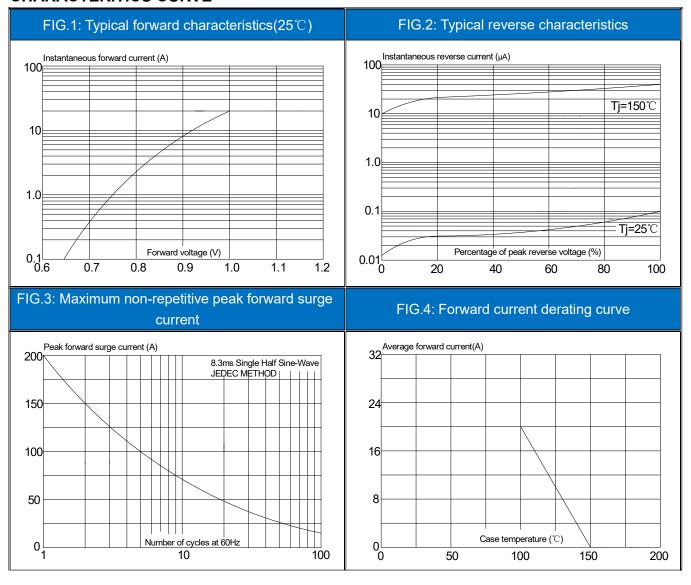


	Dimensions					
Ref.	Millimeters			Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.50		4.90	0.177		0.193
В	0.74	0.80	0.83	0.029	0.031	0.033
С	0.47		0.65	0.019		0.026
C2	2.45		2.75	0.096		0.108
СЗ	2.60		3.00	0.102		0.118
D	8.80		9.30	0.346		0.366
Е	9.80		10.4	0.386		0.410
F	6.40		6.80	0.252		0.268
G		5.08			0.200	
Н	28.0		29.8	1.102		1.173
L1		3.63			0.143	
L2	1.14		1.70	0.045		0.067
L3		3.30			0.130	
V1		45°			45°	

PACKAGE INFORMATION-TO-220FP-2L

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

CHARACTERITICS CURVE





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