JIEJIE MICROELECTRONICS CO., LTD.

JEER0106FL EPI SUPERFAST RECOVERY RECTIFIER

Rev.1.2

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

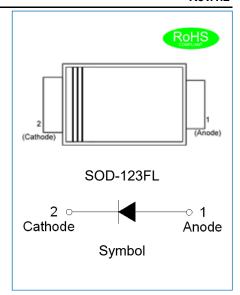
MECHANICAL DATA

♦ Case: SOD-123FL molded plastic

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

♦ Polarity: Color band denotes cathode end

♦ Weight: 0.0144 gram



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

Parameter	Symbol	JEER0106FL	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum RMS voltage	V _{RMS}	420	V
Maximum DC blocking voltage	V _{DC}	600	V
Average forward current at T _A =100 ℃	I _{F(AV)}	1	Α
Peak forward surge current:8.3ms single half sine-wave superimposed on rated load	IFSM	30	А
Operating junction and storage temperature range	T_{j}, T_{stg}	-55 to +150	$^{\circ}$

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

Paramete	Symbol	Min.	Тур.	Max.	Unit	
Maximum forward voltage	ximum forward voltage		-	-	1.5	V
Maximum DC reverse current at	T _j =25℃	IR	-	-	5	μΑ
rated DC blocking voltage	T _j =150℃		-	-	200	
Maximum reverse recovery time	I _F =0.5A,I _R =1A,I _{rr} =0.25A	t _{rr}	-	-	35	ns

THERMAL RESISTANCES

Symbol	Parameter		Тур.	Max.	Unit
R _{th(j-a)}	Junction to ambient		1	170	°C/W

MARKING



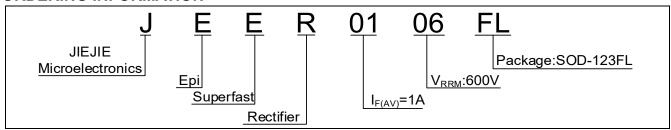
ER	Superfast Recovery Rectifier			
01	I _{F(AV)} =1A			
06	V _{RRM} :600V			

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

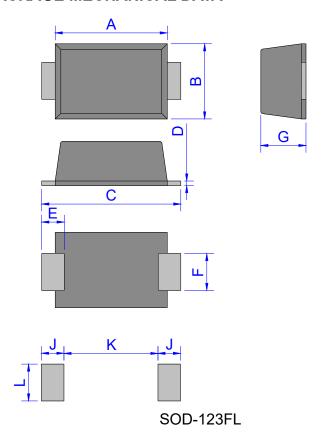
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



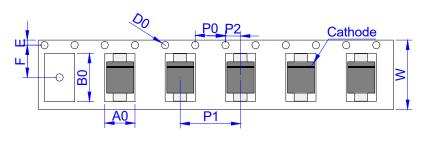
PACKAGE MECHANICAL DATA

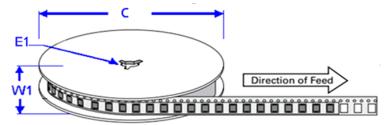


	Dimensions				
Ref.	Millimeters		Inches		
	Min.	Max.	Min.	Max.	
Α	2.60	3.00	0.102	0.118	
В	1.60	2.00	0.063	0.079	
С	3.45	3.95	0.136	0.156	
D	0.10	0.25	0.004	0.01	
Е	0.3	0.9	0.012	0.035	
F	0.80	1.20	0.031	0.047	
G	0.95	1.35	0.037	0.053	
J	1.30		0.051		
K		1.70		0.067	
L	1.30		0.051		



TAPE AND REEL SPECIFICATION-SOD-123FL

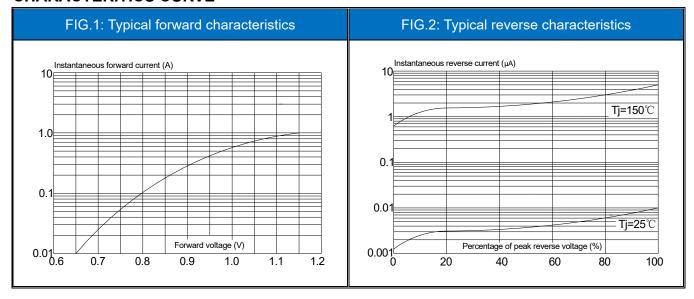


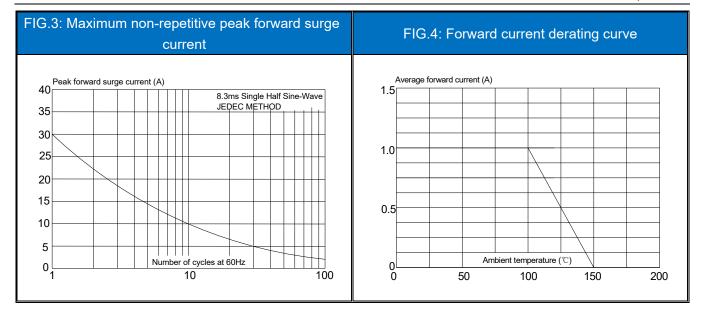


Dif	Dimensions			
Ref.	Millimeters	Inches		
A0	1.95 ± 0.3	0.077± 0.012		
В0	3.95 ± 0.3	0.156 ± 0.012		
С	178	7.0		
D0	1.55 ± 0.1	0.061 ± 0.004		
Е	1.75 ± 0.2	0.069 ± 0.008		
E1	13.3 ± 0.3	0.524± 0.012		
F	3.50 ± 0.2	0.138 ± 0.008		
P0	4.00 ± 0.2	0.157 ± 0.008		
P1	4.00 ± 0.2	0.157 ± 0.008		
P2	2.00 ± 0.2	0.079 ± 0.008		
W	8.0± 0.2	0.315 ± 0.008		
W1	11.5 ± 1.0	0.453 ± 0.039		

OUTLINE	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)
TAPING	0.0144	3,000	150,000	178

CHARACTERITICS CURVE





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