JIEJIE MICROELECTRONICS CO., LTD.

JPCR0102FL 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
- ♦ Epitaxial planar technology
- ♦ 5th Generation soft fast recovery characteristics
- ♦ Low recovery loss

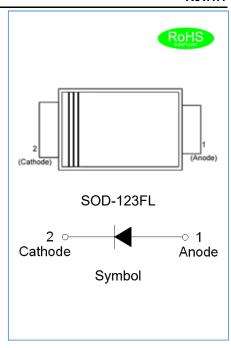
MECHANICAL DATA

♦ 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℃ ambient temperature unless otherwise specified.)

Parameter	Symbol	JPCR0102FL	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	200	V
Maximum DC blocking voltage	V_{DC}	200	V
Average forward current at T _C =95℃	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 +175	$^{\circ}$

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

Parameter	Symbol	Min.	Тур.	Max.	Unit	
Forward voltage	I _F =1A,T _j =25℃	VF	-	-	0.87	V
Deveree current	V _R =200V,T _j =25℃		-	-	1	- μΑ
Reverse current	V _R =200V,T _j =150℃	l _R	-	- 100	100	
Reverse recovery time	I _F =0.5A,I _R =1A, I _{rr} =0.25A	t _{rr}	-	-	25	ns

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	90	-	°C/W

MARKING



РС	Planar Hyperfast Recovery Rectifier
01	I _{F(AV)} =1A
02	V _{RRM} :200V

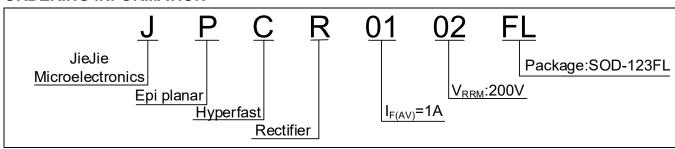
<u>x</u>H1: Month, 1/2/3~9/A/B/C

3**x**1:

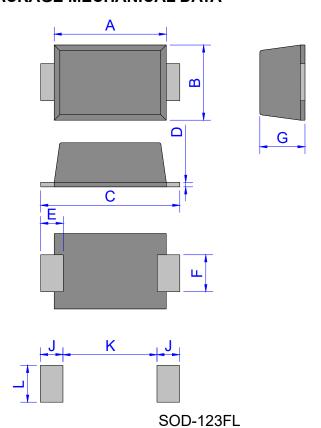
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION

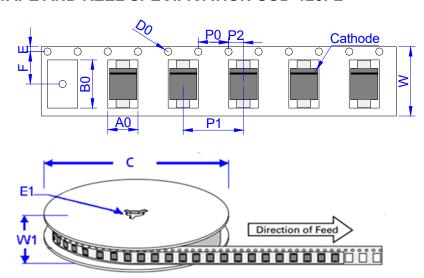


PACKAGE MECHANICAL DATA



		Dimensions			
Ref.	Millimeters		Incl	nes	
	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		

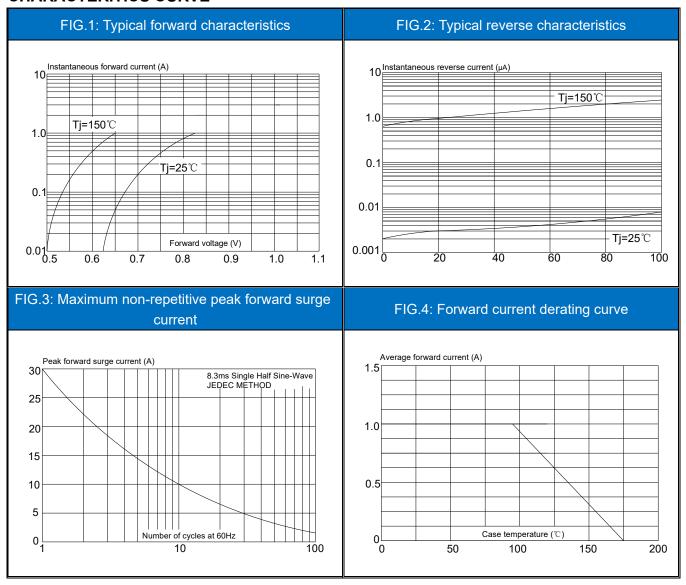
TAPE AND REEL SPECIFICATION-SOD-123FL



	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		
E	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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