JIEJIE MICROELECTRONICS CO., LTD.

JPCR0102SA EPI PLANAR HYPERFAST SOFT 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
- Hyperfast recovery time
- ♦ Epitaxial planar technology
- ♦ 5th Generation soft fast recovery characteristics
- ♦ Low recovery loss

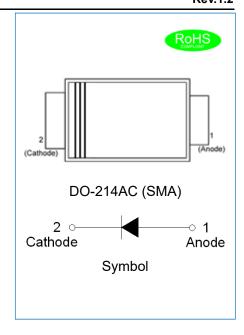


♦ Case: JEDEC DO-214AC molded plastic

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

♦ Polarity: Color band denotes cathode end

♦ Weight: 0.0673 gram



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

Parameter	Symbol	JPCR0102SA	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	200	V
Maximum DC blocking voltage	V _{DC}	200	V
Average forward current at T _C =115℃	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
Daverse surrent	V _R =200V,T _j =25℃	1	-	-	1	- μΑ
Reverse current	V _R =200V,T _j =150℃	l _R	-	-	100	
Reverse recovery time	I _F =0.5A,I _R =1A, I _{rr} =0.25A	t _{rr}	-	-	25	ns



THERMAL RESISTANCES

Symbol	Parameter		Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	50	-	°C/W

MARKING



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

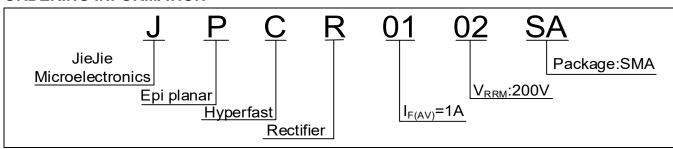
<u>x</u>H1: Month, 1/2/3~9/A/B/C

3<u>x</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	

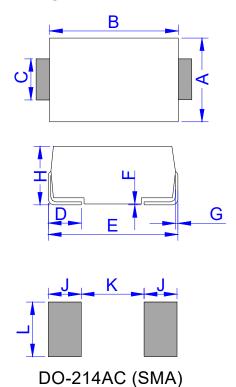
3Hx: Batch number

ORDERING INFORMATION



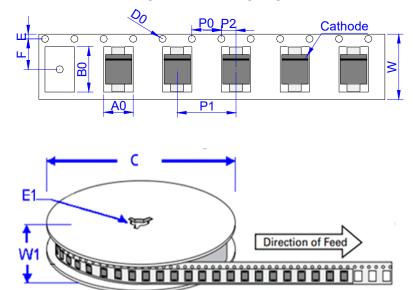


PACKAGE MECHANICAL DATA



	Dimensions				
Ref.	Millimeters		Inches		
	Min.	Max.	Min.	Max.	
Α	2.60	3.00	0.102	0.118	
В	4.15	4.65	0.163	0.183	
С	1.25	1.65	0.049	0.065	
D	0.95	1.52	0.037	0.060	
Е	4.90	5.30	0.193	0.209	
F	0.051	0.203	0.002	0.008	
G	0.15	0.31	0.006	0.012	
Н	2.00	2.44	0.079	0.096	
J	2.00		0.079		
K		2.30		0.091	
L	1.80		0.071		

TAPE AND REEL SPECIFICATION-SMA

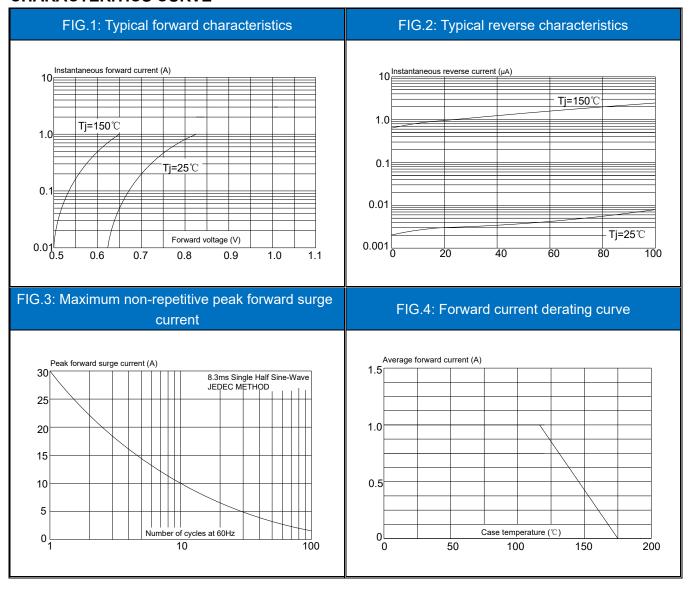


Def	Dimensions			
Ref.	Millimeters	Inches		
A0	2.79 ± 0.3	0.110 ± 0.012		
В0	5.33 ± 0.3	0.210 ± 0.012		
С	330.0	13.0		
D0	1.55 ± 0.1	0.061 ± 0.004		
Е	1.75 ± 0.2	0.069 ± 0.008		
E1	13.3 ± 0.3	0.524± 0.012		
F	5.5 ± 0.2	0.217 ± 0.008		
P0	4.00 ± 0.2	0.157 ± 0.008		
P1	4.00 ± 0.2	0.157 ± 0.008		
P2	2.00 ± 0.2	0.079 ± 0.008		
W	12.0± 0.2	0.472 ± 0.008		
W1	15.7 ± 2.0	0.618 ± 0.079		

OUTLINE	UNIT WEIGHT (g/PCS) TYP	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)
TAPING	0.0673	7,500	120,000	330



CHARACTERITICS CURVE





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