JIEJIE MICROELECTRONICS CO., LTD.

JECR0202SA EPI HYPERFAST SOFT RECOVERY RECTIFIER

Rev.1.3

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 and soft recovery characteristics
- ♦ Low recovery loss

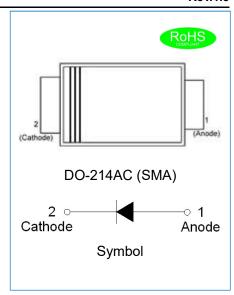
MECHANICAL DATA

♦ 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	JECR0202SA	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 _A =85℃	I _{F(AV)}	2	Α
Peak forward surge current:8.3ms single half sine-wave superimposed on rated load	I _{FSM}	40	А
Operating junction and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}$

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℃	V	-	-	1	V
Forward voltage	I _F =2A, T _j =25℃	V _F	-	-	1.05	
DC reverse current at rated DC	T _j =25℃	ı	-	-	5	μΑ
blocking voltage	T _j =150℃	l _R	-	-	200	
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-a)}	Junction to ambient (note1)		-	100	℃W

Note1: Thermal resistance from junction to ambient mounted on P.C.B. with 8.0 mm x 8.0 mm copper pad areas.

MARKING



CR	Hyperfast Recovery Rectifier
02	I _{F(AV)} =2A
02	V _{RRM} :200V

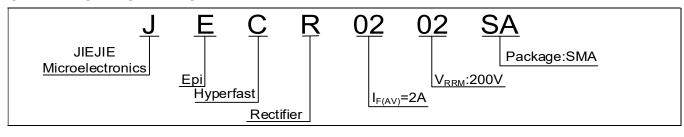
xH1: Month, 1/2/3~9/A/B/C

3<u>x</u>1:

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

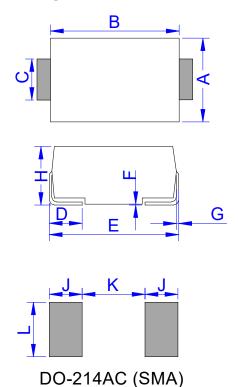
3Hx: Batch number

ORDERING INFORMATION



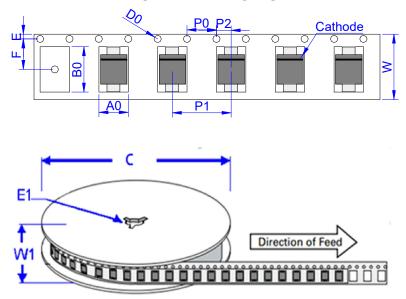


PACKAGE MECHANICAL DATA



	Dimensions				
Ref.	Millimeters		Inc	hes	
	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		

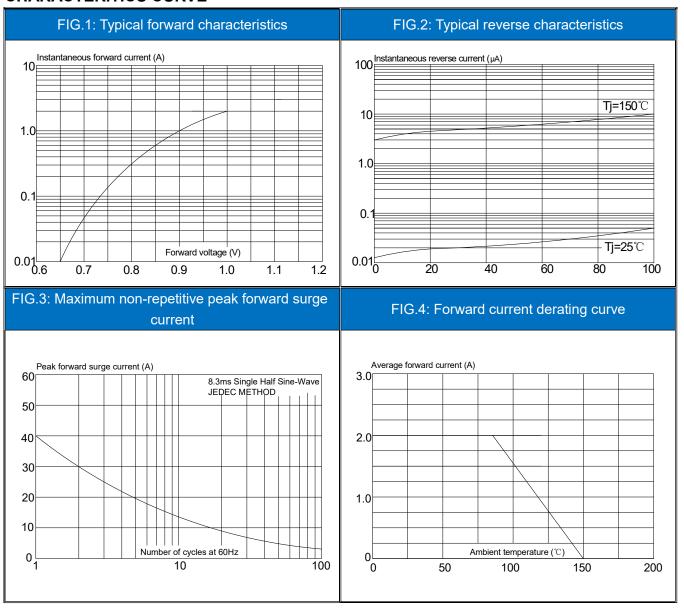
TAPE AND REEL SPECIFICATION-SMA



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		
E	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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