RUIL

ES1A THRU ES1J

Super Fast Recovery Rectifier Diode

Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High frequency
- High forward surge capability
- Meets MSL level 1, per J-STD-020,LF maximum peak of 260 °C

Typical Application

For use in high frequency rectification of power supply, inverters, converters, and freewheeling diodes for consumer and telecommunication.

Mechanical Data

- Package: DO-214AC(SMA)
 Molding compound meets UL 94 V-0 flammability rating,RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end

Maximum Ratings (Ta=25°C Unless otherwise specified)

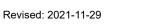
DADAMETED	0	Unit	Conditions	ES1						
PARAMETER	Symbol		Conditions	Α	В	D	G	J		
Repetitive Peak Reverse Voltage	Vrrm	V		50	100	200	400	600		
Average Forward Current	lo	А	Half-sine wave, Resistance load, Ta(Fig 1)	1.0						
Surge(Nonrepetitive)Forward	IFSM	A	60HZ sine wave, 1 cycle,	30						
Current			Ta=25°C							
Current Squared Time	l ² t		1ms≤t<8.3ms	3.7						
		A ² s Tj=25℃,Rating of per diode								
Thermal Resistance	R _{0J-A}	°C/W	Between junction and case	85						
Storage Temperature	Tstg	°C		-55 ~ +150						
Junction Temperature	Tj	°C		-55 ~ +150						

Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions		ES1				
FARAMETER	Symbol				Α	В	D	G	J
Peak Forward Voltage	Vfm	V	F =	1.0A	0.95 1.3			1.3	1.7
Peak Reverse Current	IRRM1		A Vrm=Vrrm	Ta=25 ℃			5		
	IRRM2	μA		Ta=125℃	200				
Maximum reverse recovery time	Trr	ns	I _F =0.5A,I _R =1.0A,I _{rr} =0.25A		35				

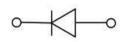






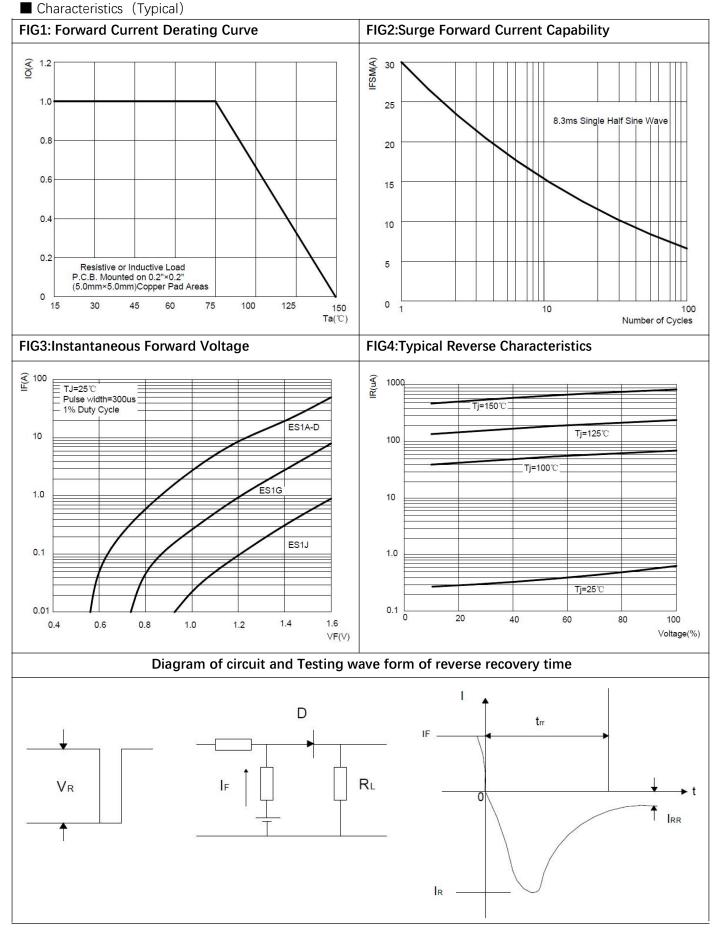






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Specifications are subject to change without notice. Please refer to http://www.ruilon.com.cn for current information.

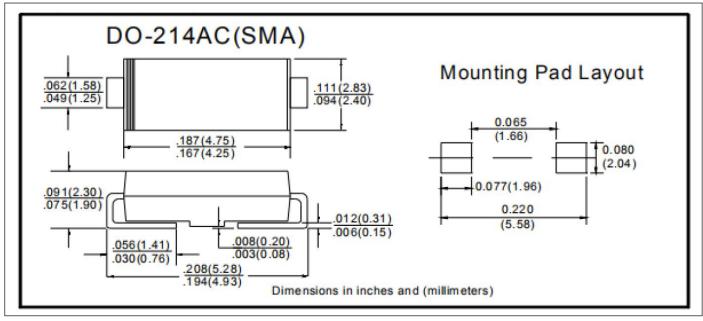




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■ Ordering Information (Example)									
PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE				
ES1A-ES1J	DO-214AC(SMA)	5000	10000	80000	13" reel				
ES1A-ES1J	DO-214AC(SMA)	7500	15000	120000	13" reel				

Outline Dimensions







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 70HFR40
 FR105 R0
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 1N4002G
 1N4005-TR
 JANS1N6640US
 481235F
 RRE02VS6SGTR
 067907F

 MS306
 US2JFL-TP
 A1N5404G-G
 CRS12(T5L,TEMQ)
 ACGRB207-HF
 CLH07(TE16L,Q)
 CLH03(TE16L,Q)
 ACGRC307-HF

 ACEFC304-HF
 DZ-1380
 NTE6356
 NTE6359
 JAN1N5555
 85HFR60
 40HFR60
 70HF120
 85HFR80
 D126A45C
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 NTE5837
 NTE5892
 NTE5900

 NTE5911
 NTE5915
 NTE6104
 NTE6105
 NTE6154
 NTE6158