

# **ES2A THRU ES2J**

## Super Fast Recovery Rectifier Diode

## **Features**

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

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# **Typical Application**

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

## **Mechanical Data**

- Package: DO-214AA(SMB)
   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)

DADAMETER	Symbol	Unit	0	ES2					
PARAMETER			Conditions	Α	В	D	G	J	
Repetitive Peak Reverse Voltage	VRRM	V		50	100	200	400	600	
Average Forward Current	lo	Α	Half-sine wave, Resistance load, Ta(Fig 1)	2.0					
Surge(Nonrepetitive)Forward Current	IFSM	Α	60HZ sine wave, 1 cycle,	50					
Current Squared Time	l² t	A <sup>2</sup> s	1ms≤t<8.3ms Tj=25℃,Rating of per diode	10.4					
Thermal Resistance	<b>R</b> өJ-A	°C/W	Between junction and case	75					
Storage Temperature	Tstg	$^{\circ}$		-55 ~ <b>+</b> 150					
Junction Temperature	Tj	°C		-55 ~ +150					

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

PARAMETER	Symbol	Unit	Conditions		ES2					
FARAMETER	Syllibol				Α	В	D	G	J	
Peak Forward Voltage	VFM	V	I F =1.0A		0.95		1.3	1.7		
Peak Reverse Current	IRRM1		V <sub>RM</sub> =V <sub>RRM</sub>	Ta=25℃			5			
Peak Reverse Current	IRRM2	μA		Ta=125℃	200					
Maximum reverse recovery time	Trr	ns	I <sub>F</sub> =0.5A,I <sub>R</sub> =1.0	35						

Revised: 2021-11-29

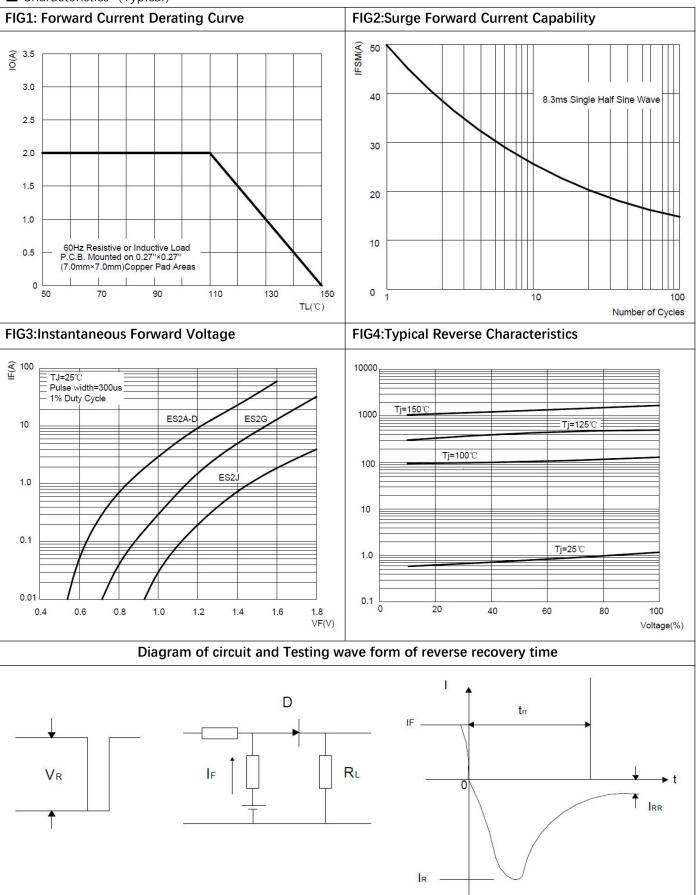






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## ■ Characteristics (Typical)



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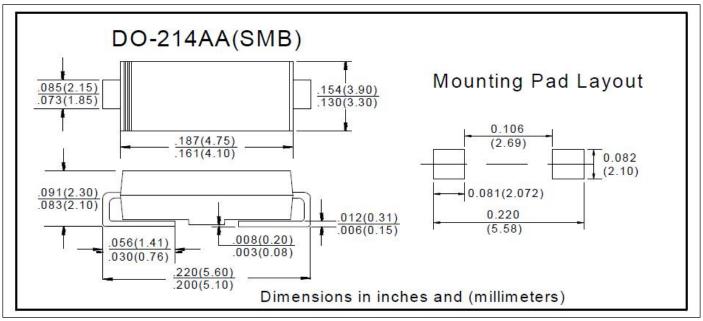


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## ■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE	
ES2A~ES2J	DO-214AC(SMB)	3000	6000	48000	13" reel	

## ■ Outline Dimensions







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