



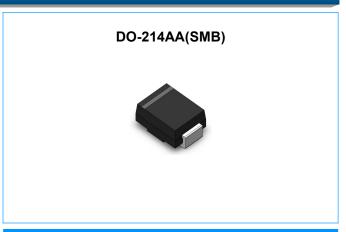
ES2AB~ES2MB 50 to 1000V 2A DO-214AA(SMB)

Features

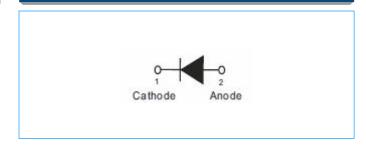
- ◆ Low profile package
- plastic package has underwriters Laboratory 94V-0
- ♦ Ideal for surface mounted application
- Glass Passivated Junction chip
- ♦ Bulit-In strain relife design
- Fast efficient recover time for high efficient
- lacktriangle High temperature soldering:250 $^{\circ}$ C /10 seconds at terminals
- Lead free



- Case: JEDEC DO-214AA molded plastic body
- ◆ Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- ♦ Weight : 0.091 grams



Functional Diagram



Absolute Maximum Ratings and Characteristics

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Parameter	Symbol	ES2AB	ES2BB	ES2DB	ES2EB	ES2GB	ES2JB	ES2MB	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	210	280	420	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	300	400	600	1000	٧
Maximum Average Forward Rectified Current at T _L =90 ℃	lo	2.0					Α		
Peak Forward Surge Current: 8.3ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50					А		
Maximum Forward Voltage at 2A	V _F	0.95		1	.30	1.70	1.85	V	
Maximum Reverse Current at 25℃	. 10								
Maximum Reverse Current at 100 ℃	I _R 200							μΑ	
Maximum Reverse Recovery Time (Note1)	t _{rr}	35					ns		
Operating and Storage Temperature Range	T _{OP} ,T _{STG}	-55 to +150					$^{\circ}$		

NOTES:

(1) Reverse recovery test condition :I_F=0.5A, I_R=1.0A, I_{RR}=0.25A



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Rating and Characteristic Curves

Fig1. Reverse Recovery Time Characteristic And Test Circuit Diagram

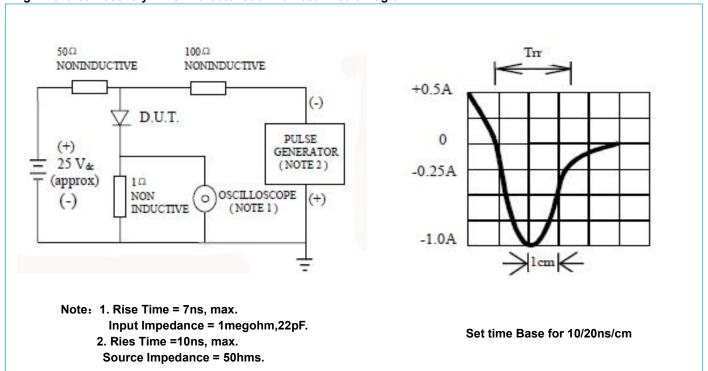


Fig2. Typical Forward Current Derating Curve

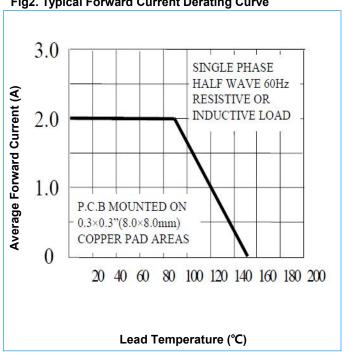
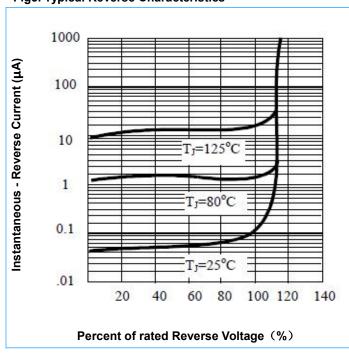


Fig3. Typical Reverse Characteristics





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Rating and Characteristic Curves (Continue)

Fig4. Typical Instantaneous Forward Characteristics

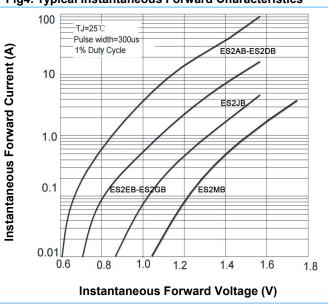


Fig5. Maximum Non-Repetitive Forward Surge Current

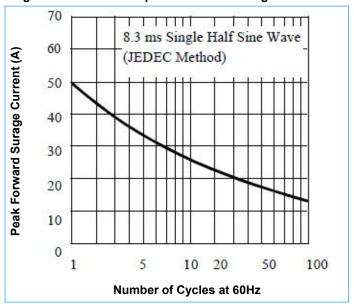
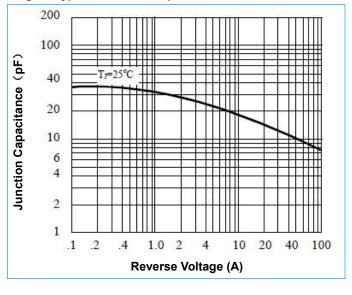


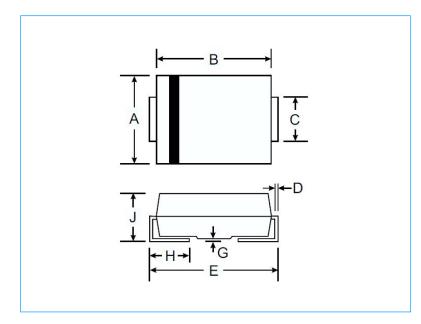
Fig6. Typical Junction Capacitance





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DO-214AA(SMB) Package Outline



Symbol	SMB				
	min.	max.			
Α	3.30	3.94			
В	4.06	4.57			
С	1.85	2.2			
D	0.152	0.305			
E	4.95	5.55			
G	0.00	0.203			
Н	0.76	1.52			
J	2.10	2.5			

Packaging Information

Part Number	Component Package	Quantity		
ES2AB~ES2MB	DO-214AA (SMB)	3000 PCS		