



ES2AA~ES2JA 2A 50 to 600V DO-214AC(SMA)

Features

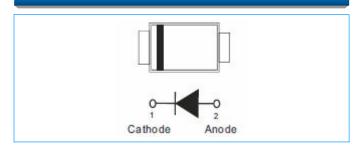
- ◆ For surface mounted applications
- Low profile package
- Glass Passivated Chip Juntion
- Superfast reverse recovery time
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives



Mechanical Date

- Case: JEDEC DO-214AC molded plastic body.
- ◆ Terminals: Solder plated, solderable per MIL-STD-750, Method 2026.
- ◆ Polarity: Color band denotes cathode end.
- Mounting Position: Any.
- ♦ Weight: 0.002 ounce, 0.068 grams.

Functional Diagram



Absolute Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, denate current by 20%

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Parameter		Symbol	ES2AA	ES2BA	ES2CA	ES2DA	ES2EA	ES2GA	ES2JA	Unit
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	150	200	300	400	600	V
Maximum RMS Voltage		V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage		V _{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Current at T _L =100℃		I _{F(AV)}	2							Α
Peak Forward Surge Current: 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		Ігэм	50						Α	
Maximum Forward Voltage at 2A		V _F	1			1.25 1.7		1.7	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _a =25℃ T _a =125℃	I _R	5 100					μA		
Typical Junction Capacitance at VR=4V, f=1MHz		C₁	60							pF
Maximum Reverse Recovery Time at IF=0.5A, IR=1A, Irr=0.25A		t _{rr}	35						ns	
Operating and Storage Temperature Range		T _J ,T _{STG}	-55 to +150						$^{\circ}$	





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Rating and Characteristic Curves

Fig1. Forward Current Derating Curves

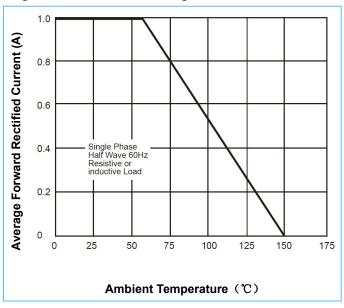


Fig2. Maximum Non-Repetitive Peak Forward Surge Current

30
25
20
10
8.3ms SINGLE HALF SINE-WAVE
(JEDEC Method)

Number Of Cycles At 60 Hz

Fig3. Typical Instantaneous Forward Characteristics

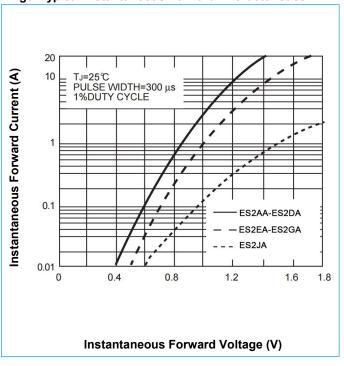
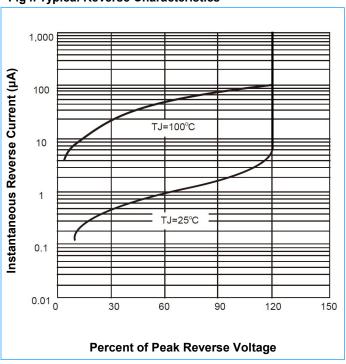


Fig4. Typical Reverse Characteristics

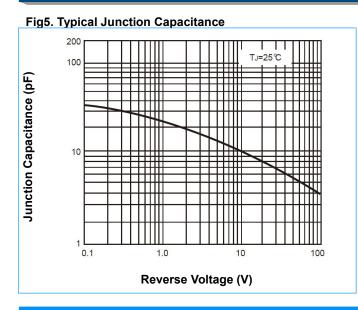


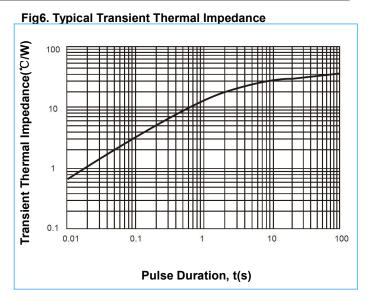




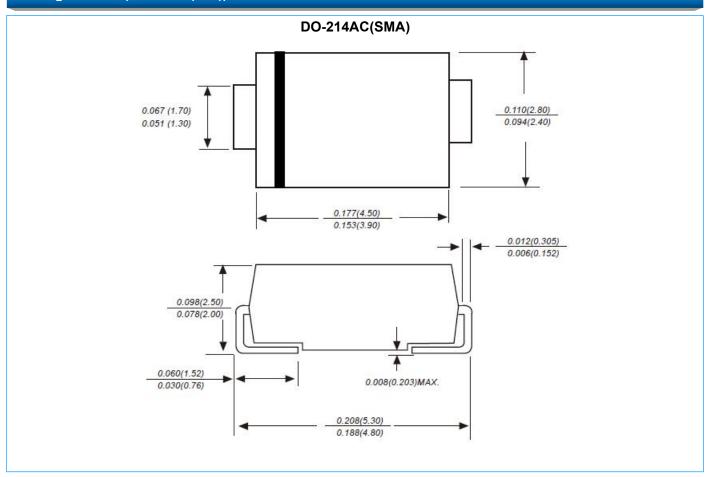
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Rating and Characteristic Curves (Continue)





Package Outline (Unit: inch(mm))



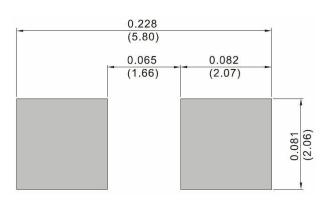




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Mounting Pad Layout (Unit: inch(mm))





Packaging Information

Part Number	Component Package	Quantity
ES2AA~ES2JA	DO-214AC (SMA)	5000 PCS

Warning



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