

ES2A-ES2J SURFACE MOUNT SUPER FAST RECTIFIER

Features:

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Overload Drop, High Efficiency
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Super-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data:

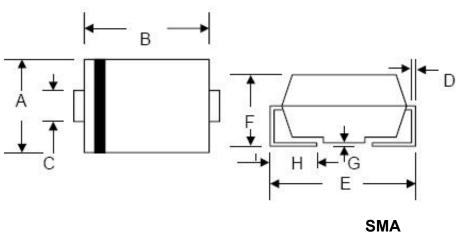
MARKING, MOLDING RESIN

Where YY is the manufacture year

WW is the manufacture week code L is the wafer's Lot Number

- Case: Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.11 grams(approx)

Mechanical Dimensions: In mm /Inches



Marking for ES2A/B/C/D/E/G/J, 1st row ES2A/B/C/D/E/G/J, 2nd row YYWWL

	SMA/DO-214AC						
Dim.	Min.	Max.	Min.	Max.			
А	2.18	2.90	0.086	0.114 0.181 0.067			
в	3.99	4.60	0.157				
С	1.29	1.70	0.508				
D	0.152	0.305	0.006	0.012 0.209 0.098 0.008			
Е	4.70	5.31	0.185				
F	1.70	2.50	0.067				
G	0.051	0.203	0.002				
Н	0.76 1.55		0.030	0.610			
8	In r	nm	In inch				

ES2A XXXXX

ES2A

Technical Data Data Sheet N0160, Rev. C



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Ordering Information:

Device	Package	Shipping
ES2(A-J)	SMA (Pb-Free)	5000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single Phase half wave 60Hz, resistive or inductive load. For capacitive load current derate by 20%.

Characteristic	Symbol	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	50	100	150	200	300	400	600	V
RMS Reverse Voltage	V _{R(RMS)}	34	70	105	140	210	280	420	
Average Rectified Output Current @T _L = 110°C	lo	2.0					А		
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) IFSM						А			
Forward Voltage $@I_F = 2.0A, T_J=25^{\circ}C$	VF	0.95		1.	25	1.7	V		
Maximum DC reverse current $T_A = 25^{\circ}C$ at rated DC blocking voltage $T_A = 100^{\circ}C$	I _R	5.0 500					μA		
Typical junction capacitance (Note 1)	CJ	25						pF	
Maximum Reverse Recovery Time (Note 2)	Trr	35					ns		
Typical thermal resistance (Note 3)	R _{θJL}	20					K/W		
Operating junction and storage temperature range	T _J ,T _{STG}	-55 to +150					°C		

Note: 1. Measured at 1.0 MHZ and applied reverse voltage of 4.0 VDC

- 2. Measured with I_F =0.5A, I_R =1.0A, I_{rr} =0.25A,
- 3. Mounted on P.C. Board with 8.0mm² lead area

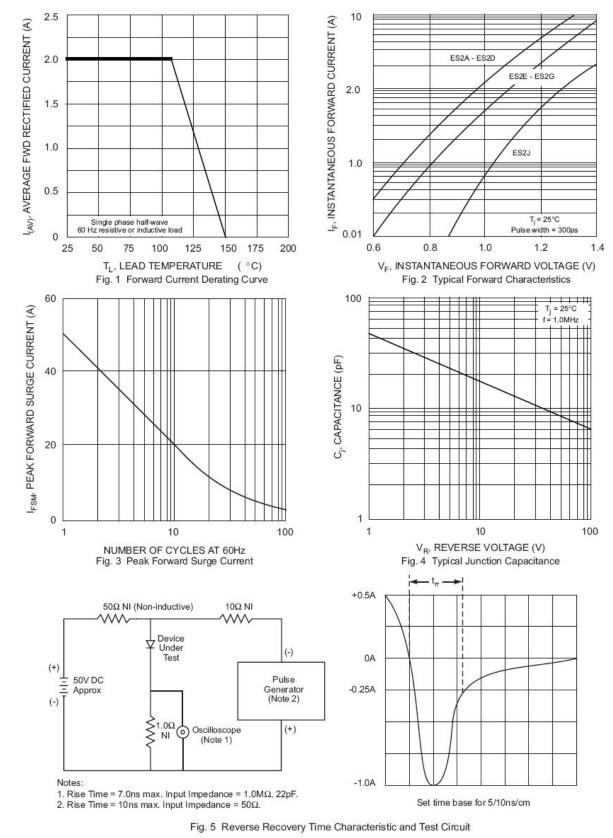
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