

ES2AA - ES2JA

2.0 AMPS. Surface Mount Super Fast Rectifiers

SMA/DO-214AC





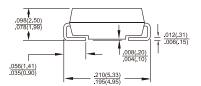
Features

- UL Recognized File # E-326243
- Glass passivated junction chip
- For surface mounted application
- Low profile package
- Built-in strain relief
- Ideal for automated placement
- Easy pick and place Superfast recovery time for high efficiency Glass passivated chip junction
- High temperature soldering:
- 260°C/10 seconds at terminals
- Plastic material used carries Underwriters Laboratory Classification 94V-0
- Green compound with suffix "G" on packing code & prefix "G" on datecode.

Mechanical Data

- Cases: Molded plastic
- Terminals: Pure tin plated, lead free.
- Polarity: Indicated by cathode band
- Packing: 12mm tape per EIA STD RS-481
- Weight: 0.064 grams

062(1.58)



Dimensions in inches and (millimeters)

Marking Diagram



ES2XA = Specific Device Code = Green Compound G

= Year = Work Month

Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}\text{C}$ ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	ES 2AA	ES 2BA	ES 2CA	ES 2DA	ES 2FA	ES 2GA	ES 2HA	ES 2JA	Units
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	500	600	V
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	350	420	V
Maximum DC Blocking Voltage	VDC	50	100	150	200	300	400	500	600	V
Maximum Average Forward Rectified Current See Fig. 1	I F(AV)	2.0							А	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	lгsм	50							А	
Maximum Instantaneous Forward Voltage @ 2.0A	VF	0.95			1.3		1	.7	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $@T_A = 25^{\circ}C$ (Note 1) $@T_A = 100^{\circ}C$	lr	10 350								uA uA
Maximum Reverse Recovery Time (Note 2)	Trr	35								nS
Typical Junction Capacitance (Note 3)	Cj	25					20			pF
Maximum Thermal Resistance(Note 4)	Reja	75								00 00
Rejl 20								°C /W		
Operating Temperature Range	TJ	-55 to +150								°C
Storage Temperature Range	Тѕтс	-55 to +150								°C

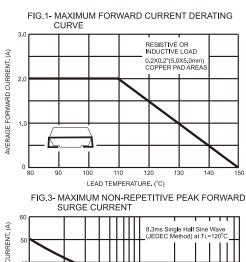
Notes: 1. Pulse Test with PW=300 usec,1% Duty Cycle

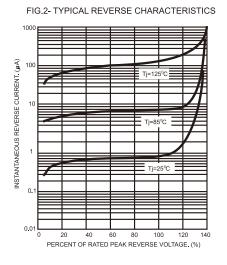
- 2. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A
- 3. Measured at 1 MHz and Applied VR=4.0 Volts
- 4. Units Mounted on P.C.B. 0.2" x 0.2" (5mm x 5mm) Pad Areas

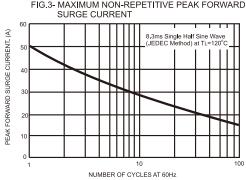
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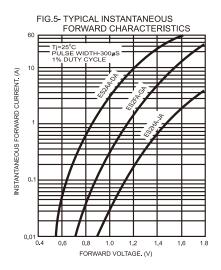


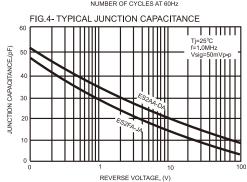
RATINGS AND CHARACTERISTIC CURVES (ES2AA THRU ES2JA)

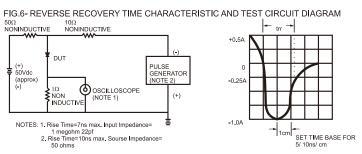












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