ES2A THRU ES2J

Surface Mount Superfast Recovery Rectifier Reverse Voltage - 50 to 600 V Forward Current – 2 A

Features

- · Plastic package has Underwriters Laboratories Flammability Classification 94V-0
- High forward surge current capability
- · For surface mounted applications
- Low reverse leakage
- · Built-in strain relief, ideal for automated placement
- Super fast switching for high efficiency

Mechanical Data

- · Case: JEDEC SMB (DO-214AA) molded plastic body
- · Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes cathode end
- · Mounted Position: Any

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 current derate by 20%

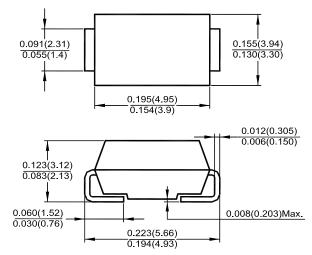
Parameter	Symbols	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current at T_L = 55 °C	I _{F(AV)}	2							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50							А
Maximum Forward Voltage at 2 A	V _F	1.1 1.7					V		
Maximum Reverse Currentat $T_a = 25 \ ^{\circ}C$ at Rated DC Blocking Voltageat $T_a = 100 \ ^{\circ}C$	I _R	5 200							μA
Typical Junction Capacitance at V_R = 4 V, f = 1 MHZ	Cj	62							pF
Typical Reverse Recovery Time at $I_F = 0.5 A$, $I_R = 1 A$, $I_{rr} = 0.25 A$	t _{rr}	35							ns
Typical Thermal Resistance ¹⁾	$R_{\theta JL}$	40						°C/W	
Operating Junction and Storage Temperature Range	T _j , T _{stg}	- 55 to + 150						°C	

¹⁾ P.C.B. mounted with 0.2 X 0.2" (5.0 X 5.0 mm) copper pad areas.

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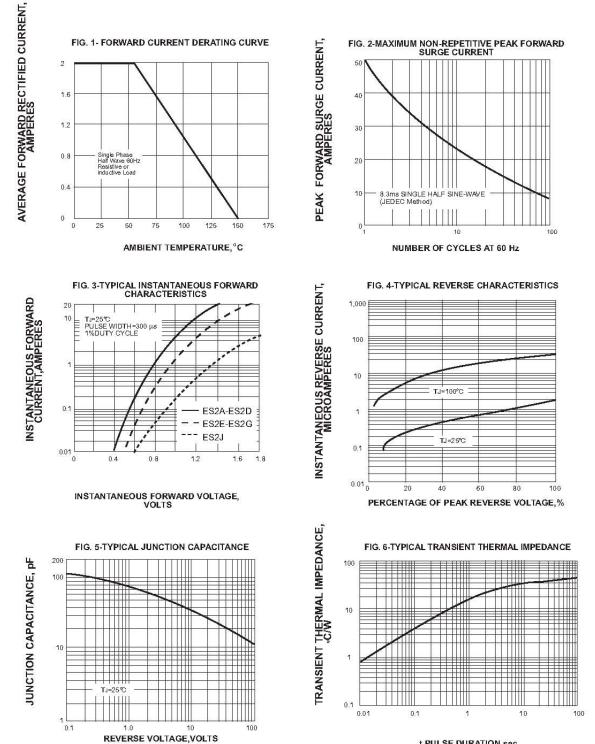


SMB (DO-214AA)

Dimensions in inches and (millimeters)

Dated: 23/03/2012 Rev: 02

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