ES1AD THRU ES1MD

Surface Mount Superfast Recovery Rectifier

Reverse Voltage - 50 to 1000 V Forward Current - 1 A

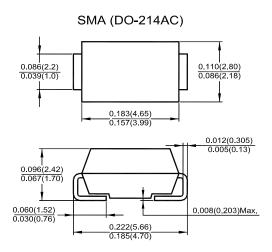
Features

- · Glass passivated junction
- Plastic package has Underwriters Laboratories
 Flammability Classification 94V-0
- · Easy pick and place
- · For surface mounted applications
- · Low profile package
- · Built-in strain relief
- · Superfast recovery times for high efficiency

Mechanical Data

 Case: SMA (DO-214AC), molded plastic
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 guaranteed

• Polarity: Color band denotes cathode end



Dimensions in inches and (millimeters)

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%.

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Parameter	Symbols	ES1AD	ES1BD	ES1CD	ES1DD	ES1ED	ES1GD	ES1JD	ES1KD	ES1MD	Units
	Marking	ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J	ES1K	ES1M	-
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	25	70	105	140	210	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1									Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30								Α	
Maximum Forward Voltage at 1 A	V _F	1				1.3		1.7		V	
Maximum Reverse Current at $T_J = 25^{\circ}C$ at Rated DC Blocking Voltage at $T_J = 125^{\circ}C$	l _R	5 50								μΑ	
Typical Junction Capacitance at $V_R = 4 \text{ V}$, $f = 1 \text{ MH}_Z$	CJ	10								pF	
Typical Reverse Recovery Time at $I_F = 0.5 \text{ A}$, $I_R = 1 \text{ A}$, $I_{rr} = 0.25 \text{ A}$	t _{rr}	35								ns	
Typical Thermal Resistance	$R_{ heta JL} \ R_{ heta JA}$	35 85								°C/W	
Operating Junction and Storage Temperature Range	T _j ,T _{stg}	- 55 to + 150									°C











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