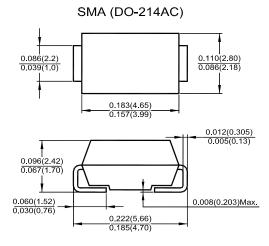
ES1AD THRU ES1MD

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



Dimensions in inches and (millimeters)

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

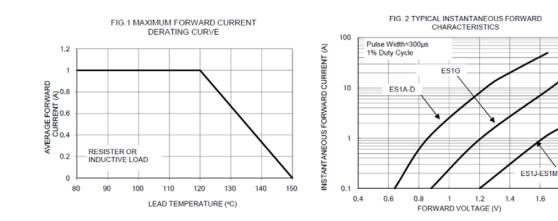
Absolute Maximum Ratings and Characteristics

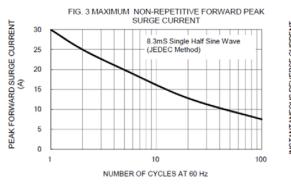
Ratings at $T_a = 25$ °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

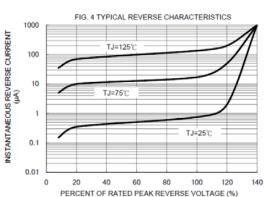
<u></u>											
Parameter	Symbols	ES1AD	ES1BD	ES1CD	ES1DD	ES1ED	ES1GD	ES1JD	ES1KD	ES1MD	Units
	Marking	ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J	ES1K	ES1M	-
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	25	70	105	140	210	280	420	560	700	V
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									А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30									A
Maximum Forward Voltage at 1 A	V _F	1				1.3 1.7		3.2		V	
Maximum Reverse Currentat $T_J = 25^{\circ}C$ at Rated DC Blocking Voltageat $T_J = 125^{\circ}C$	I _R	5 50								μΑ	
Typical Junction Capacitance at V_R = 4 V, f = 1 MH _Z	CJ	10								pF	
Typical Reverse Recovery Time at I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A	trr	35								ns	
Typical Thermal Resistance	$R_{ extsf{ heta}JL}$ $R_{ extsf{ heta}JA}$	35 85								°C/W	
Operating Junction and Storage Temperature Range	T_{j} , T_{stg}	- 55 to + 150									°C

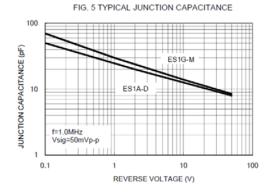


ES1AD THRU ES1MD











1.8

1.6