ES1AM THRU ES1MM

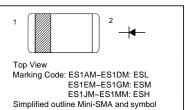
Surface Mount Superfast Recovery Rectifier Reverse Voltage – 50 to 1000 V Forward Current – 1 A

Features

- Easy pick and place
- For surface mounted applications
- Low profile package
- Superfast recovery times for high efficiency

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



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%.

Parameter	Symbols	ES1AM	ES1BM	ES1CM	ES1DM	ES1EM	ES1GM	ES1JM	ES1KM	ES1MM	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	800	1000	>
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	560	700	>
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	800	1000	>
Maximum Average Forward Rectified Current T _L = 100°C	I _{F(AV)}	1					Α				
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)		30						Α			
Maximum Forward Voltage at 1 A	V_{F}		0.	95		1	.3		1.7		V
Maximum Reverse Currentat $T_A = 25^{\circ}C$ at Rated DC Blocking Voltageat $T_A = 100^{\circ}C$	I _R					5 100					μΑ
Typical Junction Capacitance at V _R = 4 V, f = 1 MHz		10						pF			
Maximum Reverse Recovery Time at $I_F = 0.5 \text{ A}$, $I_R = 1 \text{ A}$, $I_{rr} = 0.25 \text{ A}$		35						ns			
Operating Junction and Storage Temperature Range		- 55 to + 150					°C				











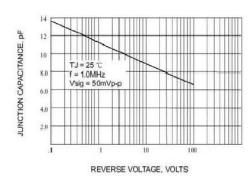
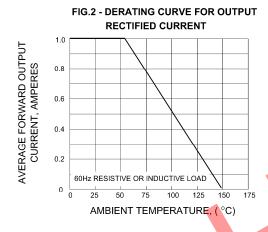


Fig .1- TYPICAL JUNCTION CAPACITANCE



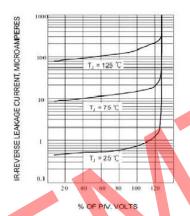


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

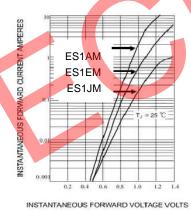
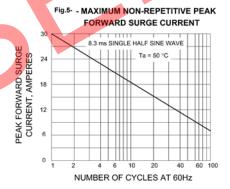


Fig. 4-TYPICAL FORWARD CHARACTERISTICS









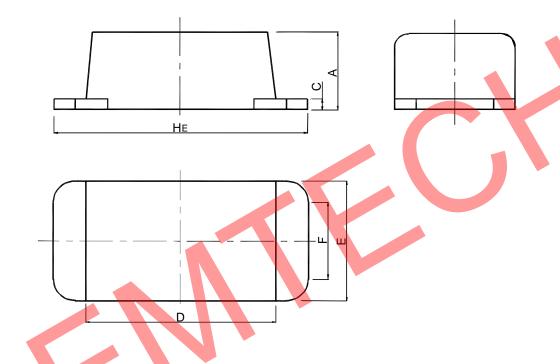




PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

Mini-SMA



UNIT	Α	С	D	Е	F	H _E
mm	1.08	0.2	2.9	1.9	1.53	3.9
	0.88	0.1	2.6	1.7	1.43	3.5

