

SMA





ES1A-ES1K

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ES1A **THRU** ES1K

Surface Mount Super Fast Recovery Rectifier

Essential information; basic information

Features

- Low profile package
- Glass passivated chip junction
- Super Fast reverse recovery time
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

For use in high frequency of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

Mechanical Data

Package: DO-214AC (SMA)

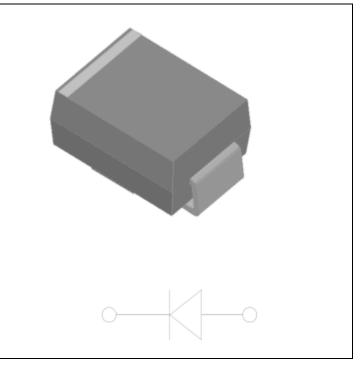
Molding compound meets UL 94 V-0 flammability

rating, RoHS-compliant

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

Polarity: Cathode line denotes the cathode end



Maximum Ratings (Ta=25[°]C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	ES1A	ES1B	ES1D	ES1G	ES1H	ES1J	ES1K
Maximum Repetitive peak reverse voltage	VRRM	V	50	100	200	400	500	600	800
Maximum RMS Voltage	VRMS	V	35	70	140	280	350	420	560
Maximum DC Blocking Voltage	VDC	V	50	100	200	400	500	600	800
AverageRectifiedOutputCurrent@60Hz sine wave, resistance load, TL (Fig.1)	10	А	1.0						
ForwardSurgeCurrent(Non-repetitive) @60Hz Half-sine wave,1 cycle,Tj=25°C	IFSM	А	25						
Storage temperature	Tstg	$^{\circ}$	-55 ~ +1 50						
Junction temperature	Tj	$^{\circ}$ C	-55 ~ +150						
Maximum instantaneous forward voltage drop per diode	VF(IFM=1.0A)	V		1.0		1.3	1.	7	1.85
Maximum reverse recovery time	Trr ns	IF=0.5A, IR=1.0A, Irr=0.25A				35			
Maximum DC reverse current at	IR (Tj=25℃)	μ Α	5						
rated DC blocking voltage per diode	IR (Tj =125℃)	μА	100						



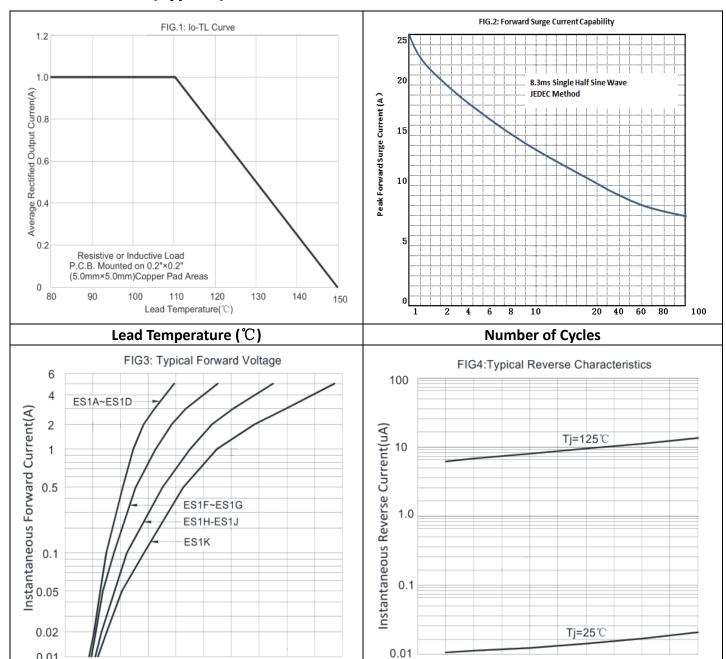




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Characteristics (Typical)



Ordering Information (Example)

1.2

Instantaneous Forward Voltage(V)

1.6

0.8

0.01

0.4

type specification	manner of packin	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
ES1A-ES1K (SMA)	T/B	2000	10000	100000	7" reel
		5000	10000	100000	11" reel
		5000	10000	100000	13" reel

2.4

20

40

Percent of Rated Peak Reverse Voltage (%)

60

80

100



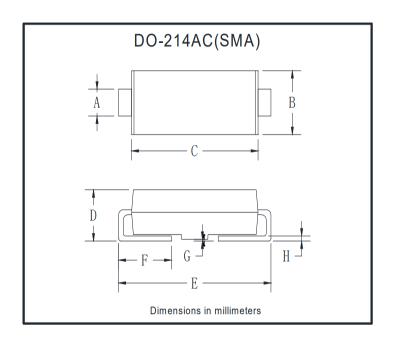




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Outline Dimensions



DO-214AC(SMA)					
Dim	Min	Max			
Α	1.25	1.58			
В	2.40	2.83			
С	4.06	4.75			
D	1.90	2.30			
E	4.93	5.28			
F	0.76	1.41			
G	0.08	0.20			
Н	0.15	0.31			

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