



ES1AS THRU ES1JS

Surface Mount Super Fast Recovery Rectifier

Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- 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 rectification 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 (T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	ES1AS	ES1BS	ES1CS	ES1DS	ES1FS	ES1GS	ES1HS	ES1JS
Device marking code			ES1AS	ES1BS	ES1CS	ES1DS	ES1FS	ES1GS		ES1JS
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	150	200	300	400	500	600
Maximum RMS Voltage	VRMS	V	35	70	105	140	210	280	350	420
Maximum DC blocking Voltage	VDC	V	50	100	150	200	300	400	500	600
Average rectified output current @60Hz sine wave, resistance load, TL (Fig.1)	I _o	A	1.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j =25	I _{FSM}	A	30							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25			60							
Current squared time @1ms≤t≤8.3ms T _j =25	I ² t	A ² s	3.735							
Storage temperature	T _{stg}		-55 ~ +150							
Junction temperature	T _j		-55 ~ +150							

■Electrical Characteristics (T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	ES1AS	ES1BS	ES1CS	ES1DS	ES1FS	ES1GS	ES1HS	ES1JS
Maximum instantaneous forward voltage	V _F	V	I _{FM} =1.0A	0.95				1.3		1.7	
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A, I _R =1.0A, I _{rr} =0.25A	35							
Maximum DC reverse current at	I _R	μA	T _j =25	5							
			T _j =125	100							

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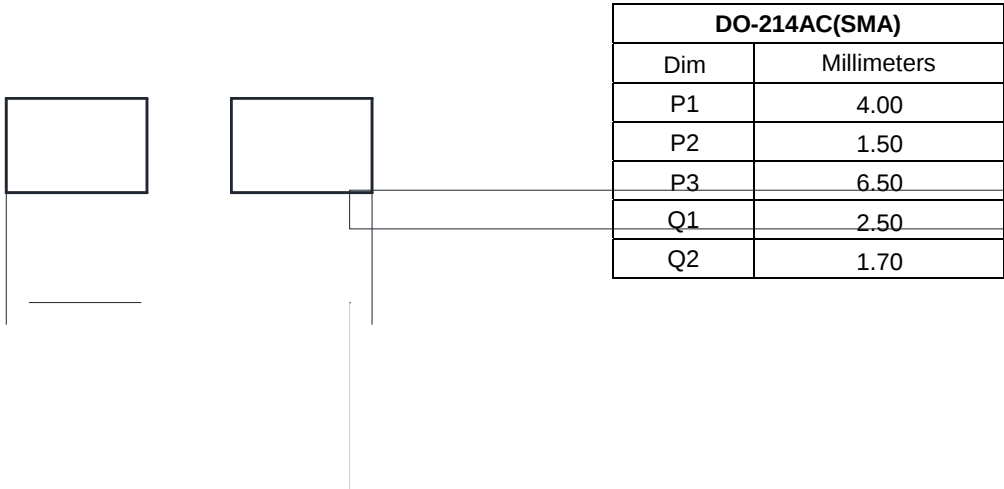
■Ordering Information (Example)

PREFERED P/N	
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■Suggested Pad Layout



DO-214AC(SMA)	
Dim	Millimeters
P1	4.00
P2	1.50
P3	6.50
Q1	2.50
Q2	1.70



Disclaimer

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