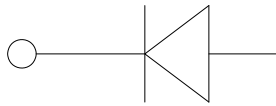
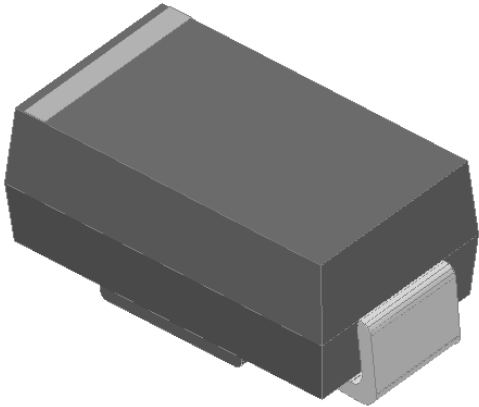




Small Signal Schottky Rectifier



Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C
- Part no. with suffix "Q" means AEC-Q101 qualified

Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, automotive and polarity protection applications.

Mechanical Data

- Package:** DO-214AC (SMA)
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity:** Cathode line denotes the cathode end

Maximum Ratings (Ta=25

PARAMETER
Device marking code
Repetitive peak reverse voltage
Maximum RMS voltage
Maximum DC blocking voltage
Maximum average forward rectified current
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, Tj=25
Voltage rate of change (rated VR)
Storage temperature
Junction temperature

Specified

	SYMBOL	UNIT	SS58AQ	SS510AQ
			SS58A	SS510A
	V <sub>RRM</sub>	V	80	100
	V <sub>RMS</sub>	V	56	70
	V <sub>DC</sub>	V	80	100
	I <sub>O</sub>	A	5.0	
	I <sub>FSM</sub>	A	120	
	dV/dt	V/μs	10000	
	T <sub>stg</sub>		-55 ~+175	
	T <sub>J</sub>		-55 ~+175	

Electrical Characteristics

Otherwise specified

		T <sub>J</sub> =25	0.77	0.8	V
		T <sub>J</sub> =125	-	200	
Typical junction capacitance	V <sub>R</sub> =4V,f=1MHz		150	-	pF



## SS58AQ THRU SS510AQ

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**Thermal Characteristics**  $T_a=25$  Unless otherwise specified

PARAMETER	SYMBOL	UNIT	SS58AQ	SS510AQ
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Thermal resistance  $R_{J-A}$

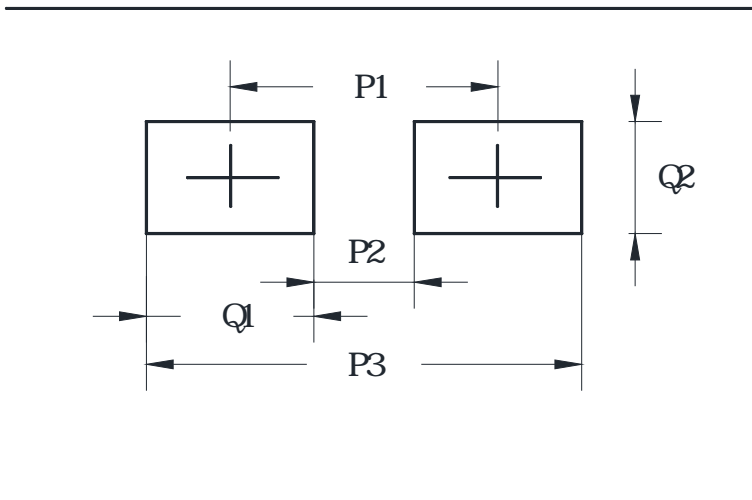


# SS58AQ THRU SS510AQ

## Outline Dimensions

DO-214AC(SMA)		
Dim	Min	Max
A	1.25	1.58
B	2.40	2.83
C	4.00	4.75
D	1.90	2.30
E	4.93	5.28
F	0.76	1.41
G	0.05	0.20
H	0.15	0.31
I	1.7	2.1

## Suggested Pad Layout



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



## SS58AQ THRU SS510AQ

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### Disclaimer

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