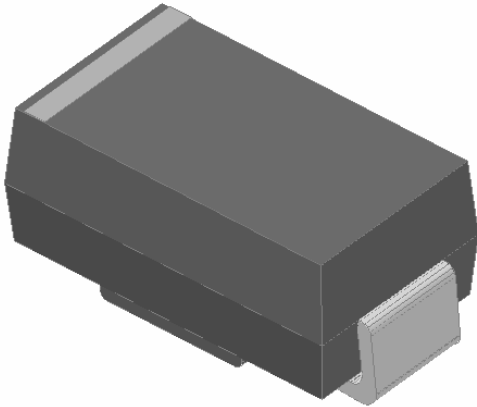




Surface Mount Schottky Rectifier

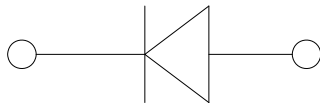


Features

- 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 UL94V-0

- **Termination:** Solderable per J-STD-002 and JESD22-B102

- **Polarity:** Cathode line denotes the cathode end

■Maximum Ratings (T_a=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS32AQ	SS33AQ	SS34AQ
Repetitive peak reverse voltage	V _{RRM}	V	20	30	40
Maximum RMS voltage	V _{RMS}	V	14	21	28
Maximum DC blocking voltage	V _{DC}	V	20	30	40
Maximum average forward rectified current (T _a =25 °C)	I _O	A	3.0		
Surge (non-repetitive) forward current @ 60 Hz half-sine wave, 1 cycle, T _a =25 °C	I _{FSM}	A	10		
			Min	Typ	Max

Storage temperature range	T _{stg}	°C	-55 ~ +150
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■Electrical Characteristics (T_a=25 °C Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Instantaneous forward voltage	V _F	I _F =3A	T _J =25	0.48	0.5	V
			T _J =125	0.41	0.45	
Reverse current	I _R	Rated V _R	T _J =25	15	100	μA
			T _J =125	-	30	mA
Typical junction capacitance	C _J	V _R =4V, f=1MHz		150	-	pF

SS32AQ THRU SS34AQ

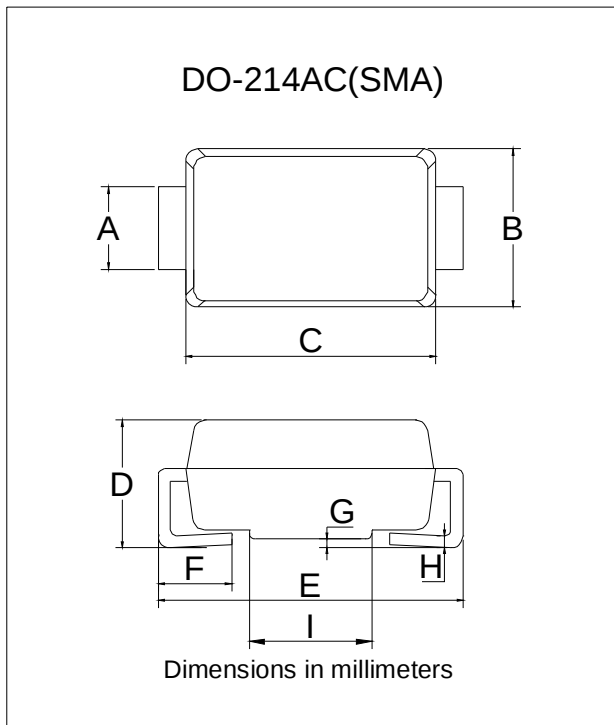
■ Thermal Characteristics ($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS32AQ	SS33AQ	SS34AQ
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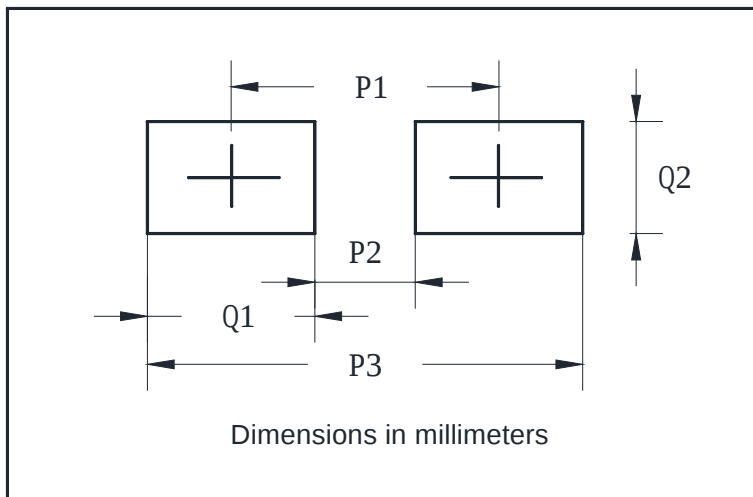
SS32AQ THRU SS34AQ

■ 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

