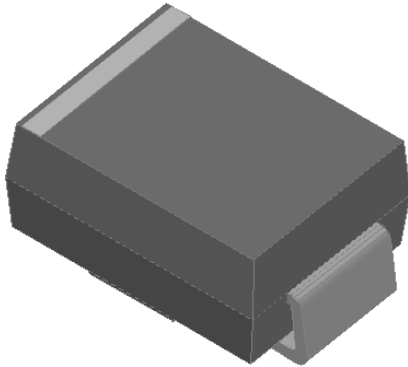


## Surface Mount Schottky Rectifier

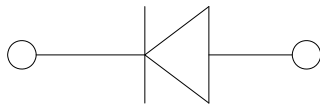


### Features

- Guard ring for overvoltage protection
- Low power losses
- Extremely fast switching
- High forward surge capability
- High frequency operation
- 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-214AA (SMB)  
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 (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS32BQ	SS33BQ	SS34BQ
Device marking code			SS32B	SS33B	SS34B
Repetitive peak reverse voltage	V <sub>RRM</sub>	V	20	30	40
Maximum RMS voltage	V <sub>RMS</sub>	V	14	21	28
Maximum DC blocking voltage	V <sub>DC</sub>	V	20	30	40
Maximum average forward rectified current at T <sub>L</sub> (Fig.1)	I <sub>O</sub>	A	3.0		
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, T <sub>J</sub> =25°C	I <sub>FSM</sub>	A	80		
Voltage rate of change (rated V <sub>R</sub> )	dV/dt	V/μs	10000		
Storage temperature	T <sub>stg</sub>	°C	-55 ~+150		
Junction temperature	T <sub>J</sub>	°C	-55 ~+150		

### ■ Electrical Characteristics (T<sub>a</sub>=25°C Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Instantaneous forward voltage	V <sub>F</sub>	I <sub>F</sub> =3A	T <sub>J</sub> =25°C	0.48	0.5	V
			T <sub>J</sub> =125°C	0.41	0.45	
Reverse current	I <sub>R</sub>	Rated V <sub>R</sub>	T <sub>J</sub> =25°C	15	100	μA
			T <sub>J</sub> =125°C	-	30	mA
Typical junction capacitance	C <sub>J</sub>	V <sub>R</sub> =4V,f=1MHz		150	-	pF



# SS32BQ THRU SS34BQ

## ■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS32BQ	SS33BQ	SS34BQ
Thermal Resistance	$R_{\theta J-A}$	°C/W	63 <sup>(1)</sup>		
	$R_{\theta J-L}$		23 <sup>(1)</sup>		

Note:  
 (1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16mm) copper pad areas

## ■ Characteristics(Typical)

Fig.1:Forward Current Derating Curve

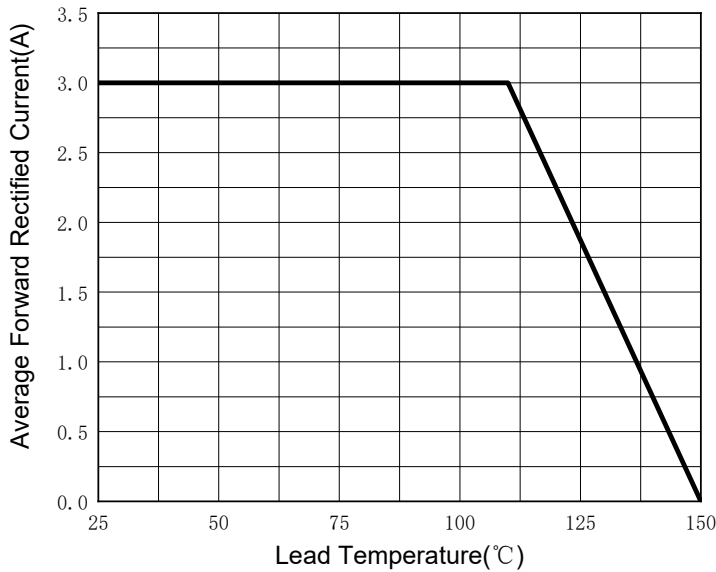


Fig.2:Maximum Non-Repetitive Peak Forward Surge Current

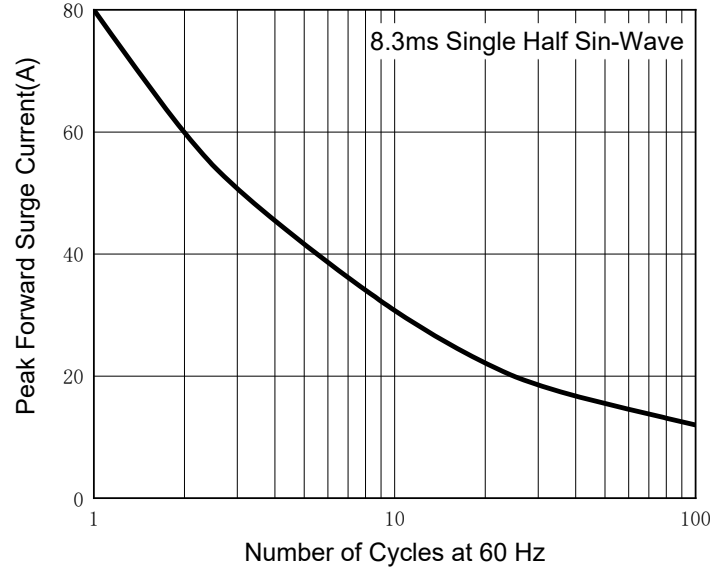


Fig.3:Typical Instantaneous Forward Characteristics

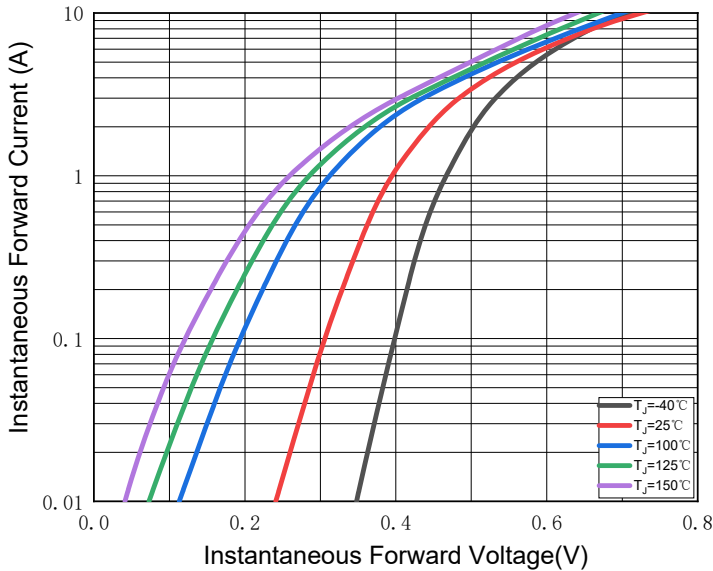
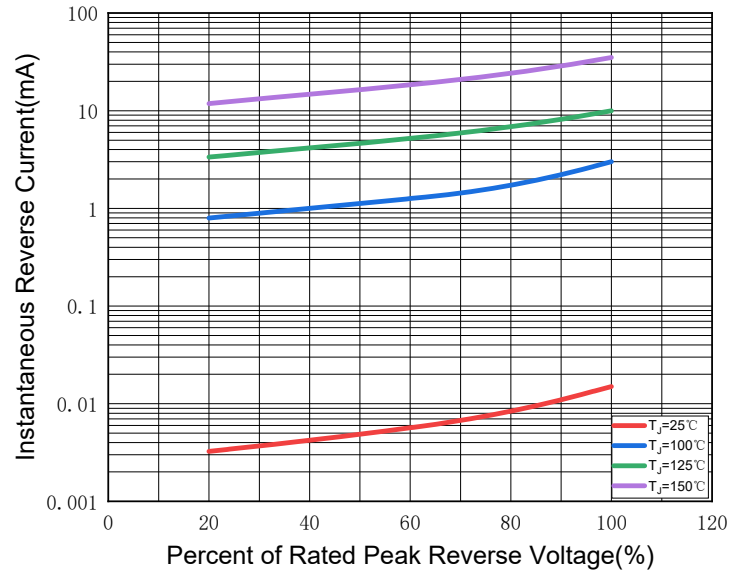


Fig.4:Typical Reverse Leakage Characteristics



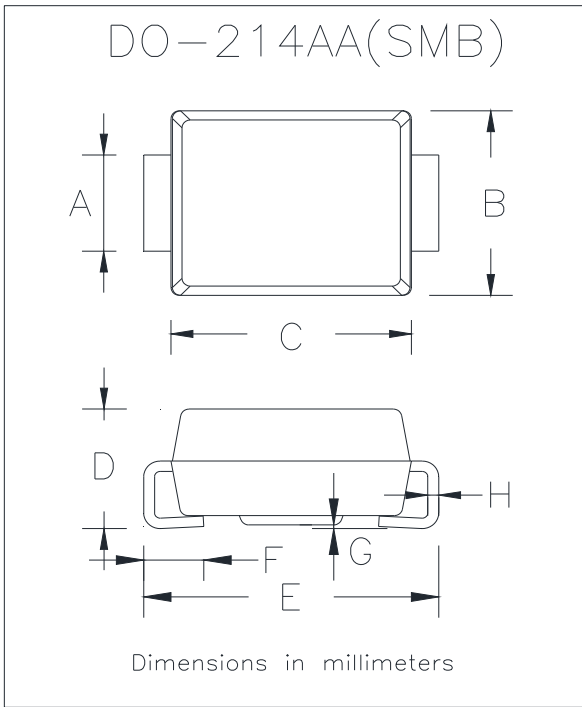
## ■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS32BQ-SS34BQ	F1	Approximate 0.1003	3000	48000	13" reel



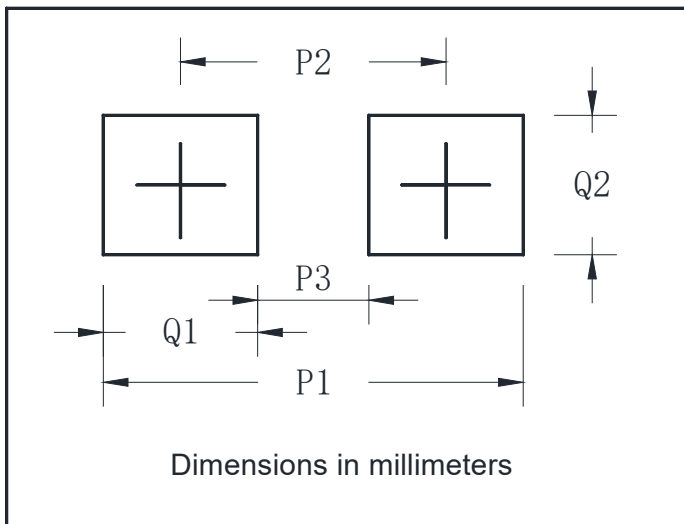
# SS32BQ THRU SS34BQ

## ■ Outline Dimensions



DO-214AA(SMB)		
Dim	Min	Max
A	1.85	2.15
B	3.30	3.94
C	4.05	4.75
D	1.99	2.61
E	5.21	5.59
F	0.90	1.41
G	0.10	0.20
H	0.15	0.31

## ■ Suggested pad layout



DO-214AA(SMB)	
Dim	Millimeters
P1	6.8
P2	4.3
P3	1.8
Q1	2.5
Q2	2.3



## SS32BQ THRU SS34BQ

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