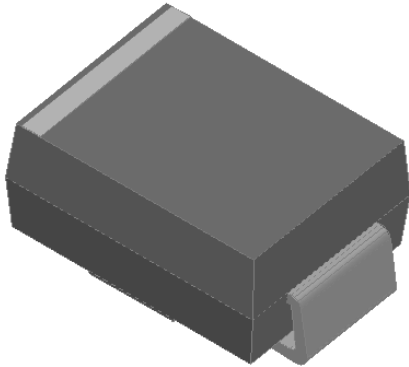


## Surface Mount Schottky Rectifier

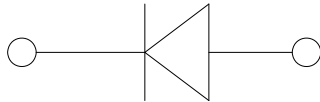


### Features

- 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-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	SS28Q	SS210Q
Device marking code			SS28	SS210
Repetitive peak reverse voltage	V <sub>RRM</sub>	V	80	100
Maximum RMS voltage	V <sub>RMS</sub>	V	56	70
Maximum DC blocking voltage	V <sub>DC</sub>	V	80	100
Maximum average forward rectified current at T <sub>L</sub> (Fig.1)	I <sub>O</sub>	A	2.0	
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, T <sub>J</sub> =25°C	I <sub>FSM</sub>	A	75	
Voltage rate of change (rated V <sub>R</sub> )	dV/dt	V/μs	10000	
Storage temperature	T <sub>stg</sub>	°C	-55 ~+175	
Junction temperature	T <sub>J</sub>	°C	-55 ~+175	

### ■ 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> =2A	T <sub>J</sub> =25°C	0.77	0.8	V
			T <sub>J</sub> =125°C	0.62	0.66	
Reverse current	I <sub>R</sub>	Rated V <sub>R</sub>	T <sub>J</sub> =25°C	-	1	μA
			T <sub>J</sub> =125°C	20	150	
Typical junction capacitance	C <sub>J</sub>	V <sub>R</sub> =4V,f=1MHz	60	-	pF	



# SS28Q THRU SS210Q

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

PARAMETER	SYMBOL	UNIT	SS28Q	SS210Q
Thermal Resistance	R <sub>θJ-A</sub>	°C/W	75 <sup>(1)</sup>	
	R <sub>θJ-L</sub>		17 <sup>(1)</sup>	

Note:  
 (1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

## ■ Characteristics(Typical)

Fig.1:Forward Current Derating Curve

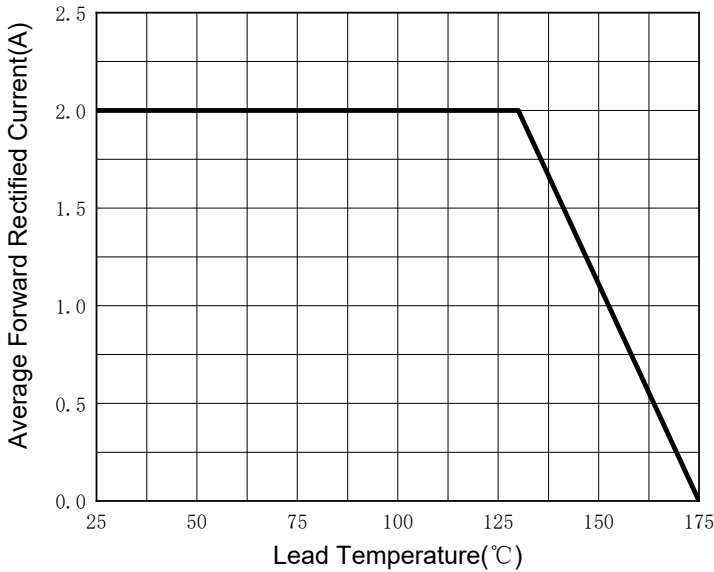


Fig.2:Maximum Non-Repetitive Peak Forward Surge Current

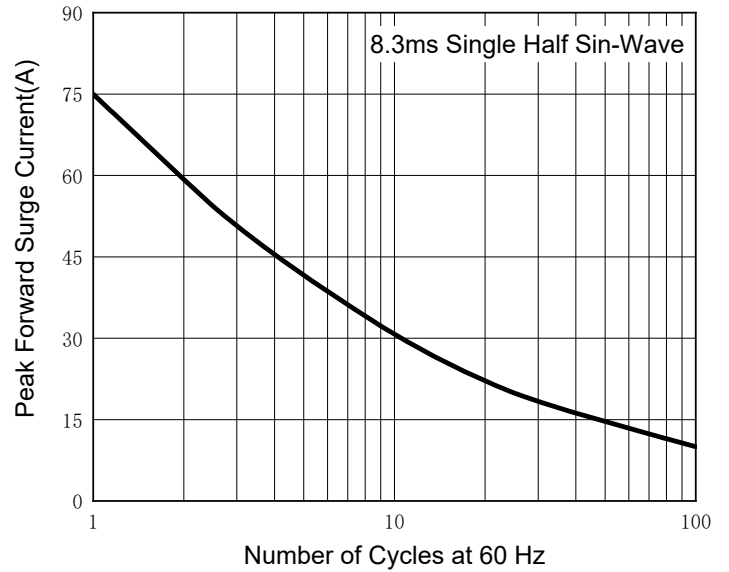


Fig.3:Typical Instantaneous Forward Characteristics

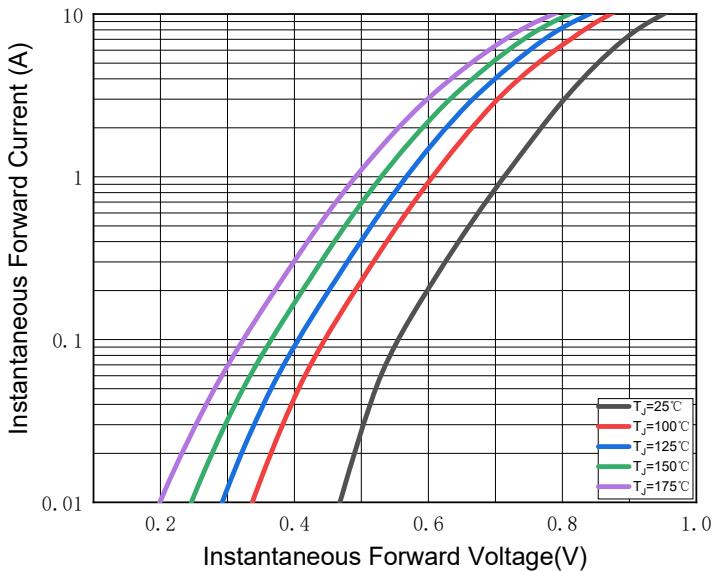
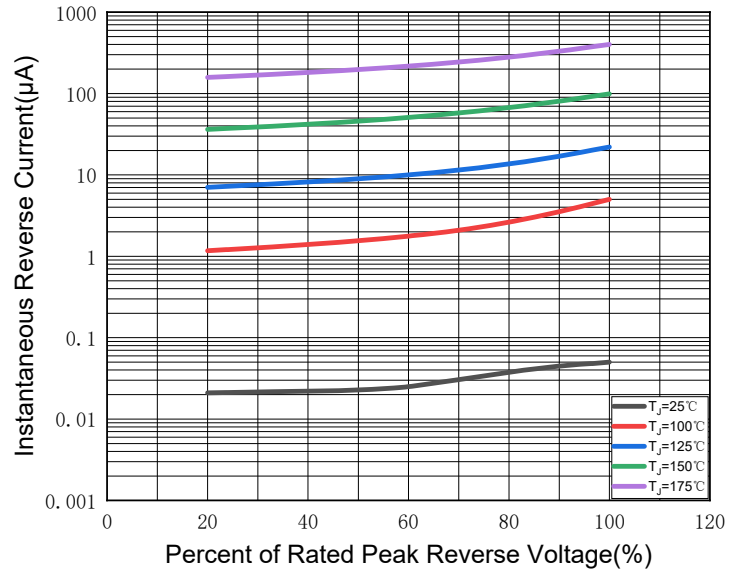


Fig.4:Typical Reverse Leakage Characteristics



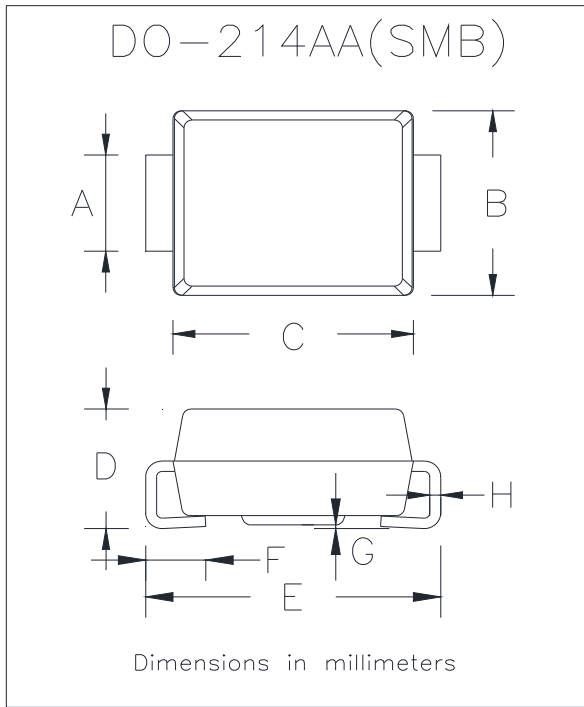
## ■ Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS28Q-SS210Q	F1	Approximate 0.1003	3000	48000	13" reel



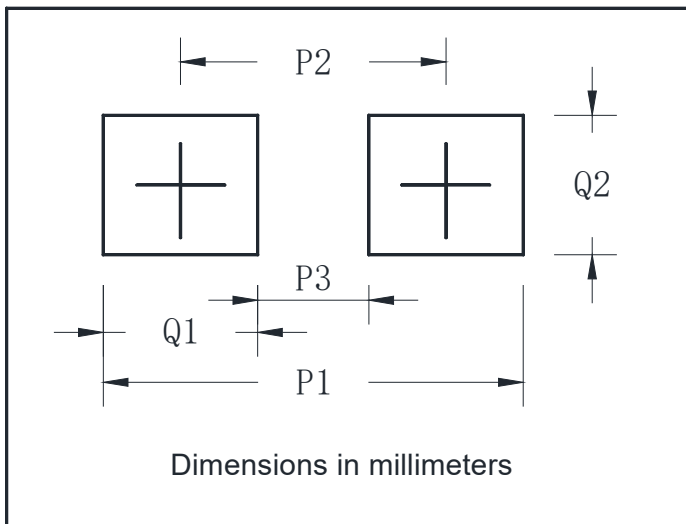
## SS28Q THRU SS210Q

### ■ 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



## SS28Q THRU SS210Q

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