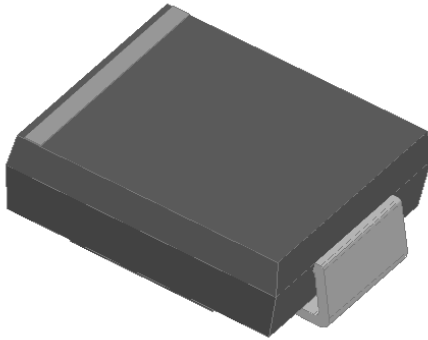


Surface Mount Schottky Rectifier

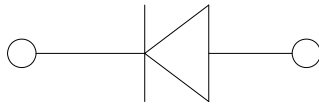


Features

- Guardring 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-214AB (SMC)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Color band denotes the cathode end

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

PARAMETER	SYMBOL	UNIT	SS32Q	SS34Q
Device marking code			SS32	SS34
Repetitive peak reverse voltage	V _{RRM}	V	20	40
Maximum RMS voltage	V _{RMS}	V	14	28
Maximum DC blocking voltage	V _{DC}	V	20	40
Maximum average forward rectified current at T _L (Fig.1)	I _O	A	3.0	
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, T _J =25°C	I _{FSM}	A	80	
Voltage rate of change (rated V _R)	dV/dt	V/μs	10000	
Storage temperature	T _{stg}	°C	-55 ~+150	
Junction temperature	T _J	°C	-55 ~+150	

■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°C	0.48	0.5	V
			T _J =125°C	0.41	0.45	
Reverse current	I _R	Rated V _R	T _J =25°C	13	100	μA
			T _J =125°C	-	30	mA
Typical junction capacitance	C _J	V _R =4V,f=1MHz		150	-	pF



SS32Q THRU SS34Q

■ Thermal Characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS32Q	SS34Q
Thermal Resistance	$R_{\theta J-A}$	$^{\circ}\text{C/W}$	48 ⁽¹⁾	
	$R_{\theta J-L}$		13 ⁽¹⁾	

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 16 mm) copper pad areas

■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS32Q~SS34Q	F1	Approximate 0.254	3000	42000	13" reel

■ Characteristics(Typical)

F1

Fig.1:Forward Current Derating Curve

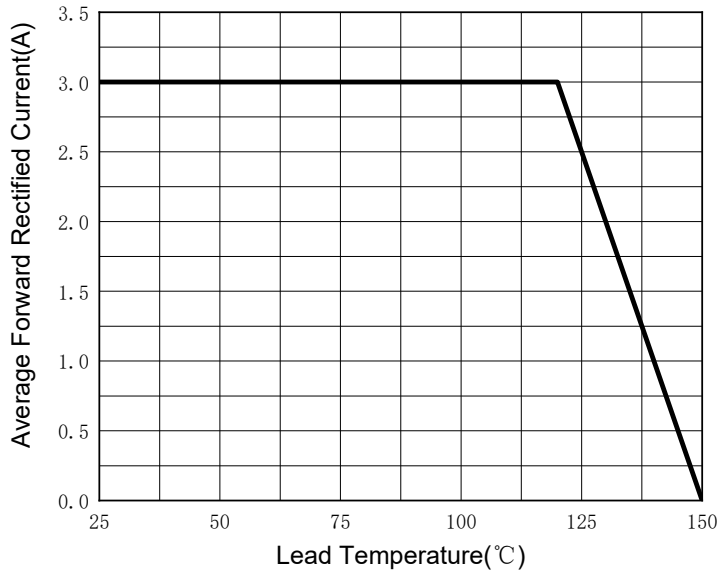


Fig.2:Maximum Non-Repetitive Peak Forward Surge Current

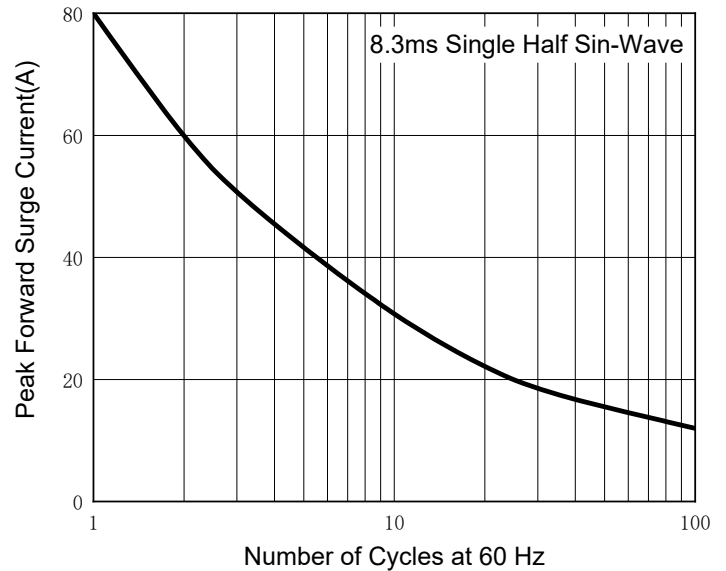


Fig.3:Typical Instantaneous Forward Characteristics

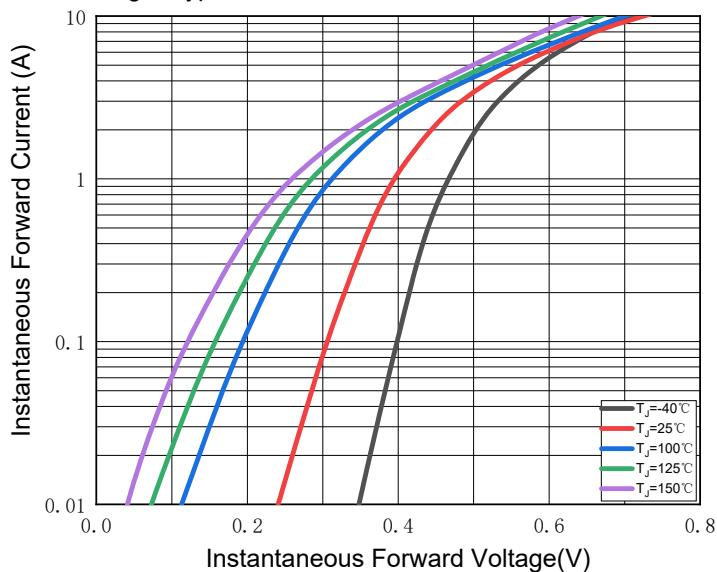
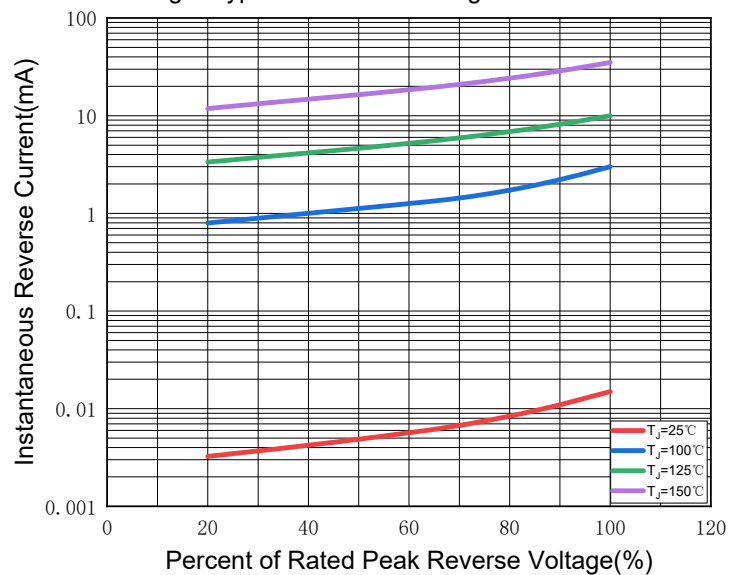


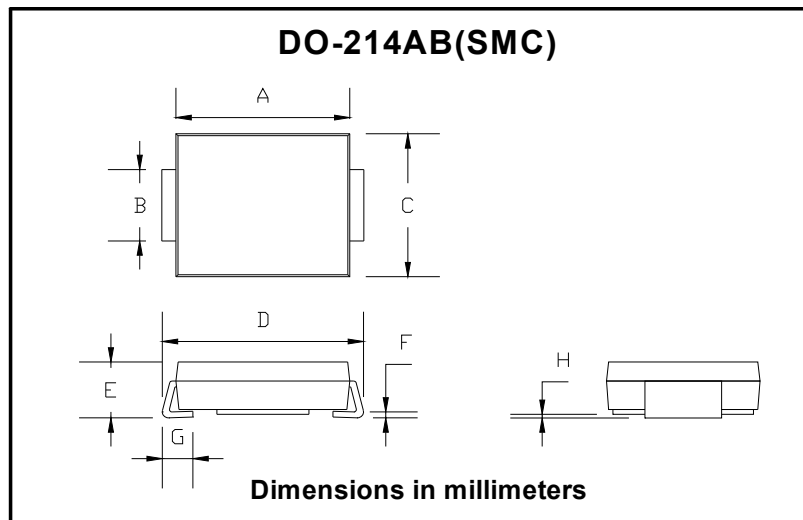
Fig.4:Typical Reverse Leakage Characteristics





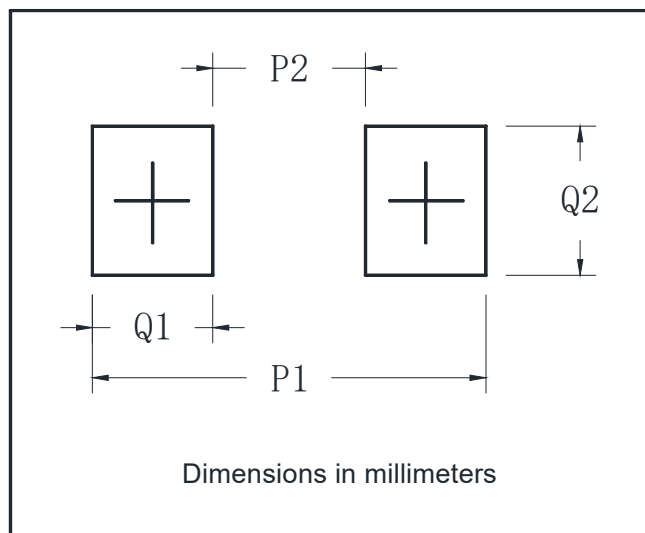
SS32Q THRU SS34Q

■ Outline Dimensions



DO-214AB (SMC)		
Dim	Min	Max
A	6.60	7.11
B	2.85	3.27
C	5.59	6.22
D	7.75	8.13
E	1.99	2.61
F	0.15	0.31
G	0.76	1.52
H	0.05	0.20

■ Suggested pad layout



Dim	Typ
P1	9.9
P2	3.84
Q1	3.03
Q2	3.82



SS32Q THRU SS34Q

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