



SS115AQ THRU SS120AQ

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 (T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS115AQ	SS120AQ
Device marking code			SS115A	SS120A
Repetitive peak reverse voltage	V _{RRM}	V	150	200
Maximum RMS voltage	V _{RMS}	V	105	140
Maximum DC blocking voltage	V _{DC}	V	150	200
Average rectified output current @60Hz sine wave, resistance load, T _L (Fig.1)	I _O	A	1.0	
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, T _J =25	I _{FSM}	A	40	
Voltage rate of change (rated V _R)	dV/dt	V/μs	10000	

			-55~+175
--	--	--	----------

■Electrical Characteristics(T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	TYP	MAX	
-----------	--------	-----------------	-----	-----	--



SS115AQ THRU SS120AQ

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

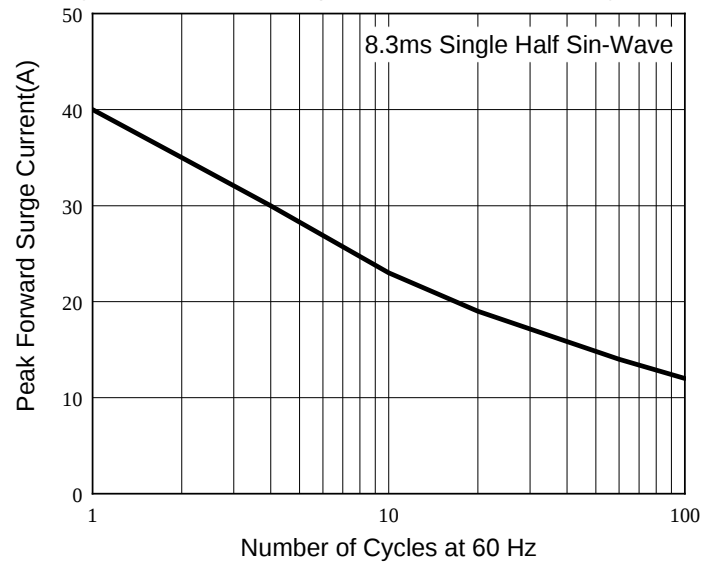
PARAMETER	SYMBOL	UNIT	SS115AQ	SS120AQ
Thermal resistance	$R_{\theta J-A}$	/W	65 ⁽¹⁾	
	$R_{\theta J-L}$		20 ⁽¹⁾	

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.2: Maximum Non-Repetitive Peak Forward Surge Current



■ Ordering Information (Example)





SS115AQ THRU SS120AQ

■ Outline Dimensions

DO-214AC(SMA)		
Dim	Min	Max
A	1.25	1.58
B		

■Suggested Pad Layout



SS115AQ THRU SS120AQ

Disclaimer

The information presented in this document is for reference only. Yangzhou Yangjie Electronic Technology Co., Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise.

The product listed herein is designed to be used with automotive electronics, are not designed for use in medical, lifesaving, lifesustaining, or military. Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

This publication supersedes & replaces all information previously supplied. For additional information, please visit our website [http:// www.21yangjie.com](http://www.21yangjie.com) , or consult your nearest Yangjie's sales office for further assistance.