



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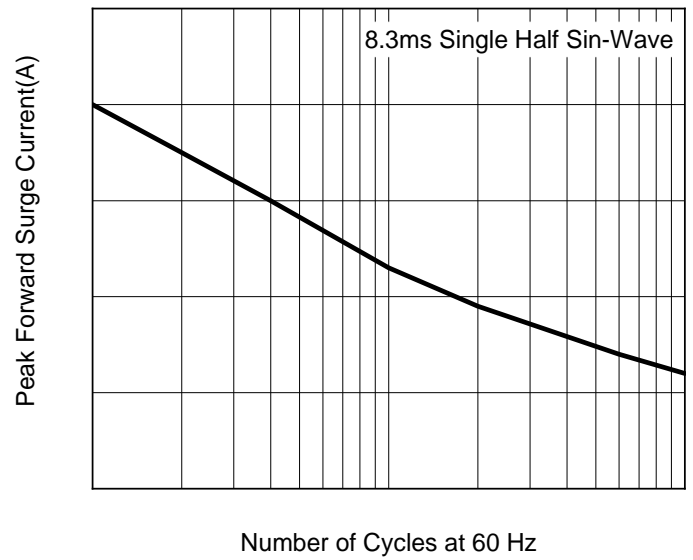
Thermal Characteristics ($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS115AQ	SS120AQ
Thermal resistance	R_{J-A}	/W	65 ^①	
	R_{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)





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Outline Dimensions

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

Suggested Pad Layout



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