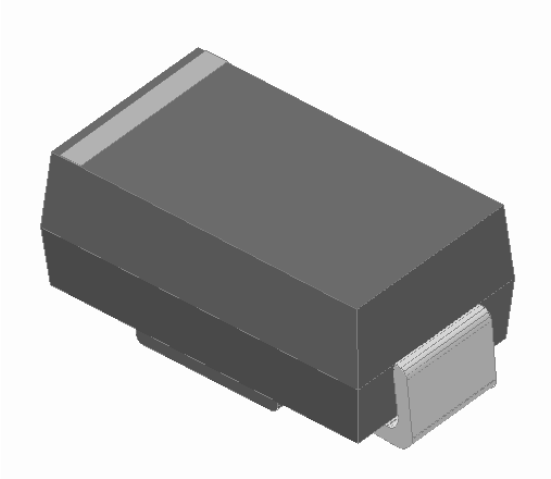
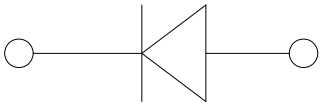
RoHS
COMPLIANT



- 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

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, automotive and polarity protection applications.



- : DO-214AC (SMA)
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Cathode line denotes the cathode end

■ (T_a=25 Unless otherwise specified)

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	
Storage temperature	T_{stg}		-55~+175	
Junction temperature	T_J		-55~+175	

■ (T_a=25 Unless otherwise specified)

Instantaneous forward voltage	V_F	I_F=1A	T_J=25	0.785	0.9	V
			T_J=125	-	0.78	
Reverse current	I_R	Rated V_R	T_J=25	-	1	μA
			T_J=125	-	1	mA
Typical junction capacitance	C_J	V_R=4V,f=1MHz		30	-	pF

■ (T_a=25 Unless otherwise specified)

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

■ (Typical)

Fig.1:Forward Current Derating Curve

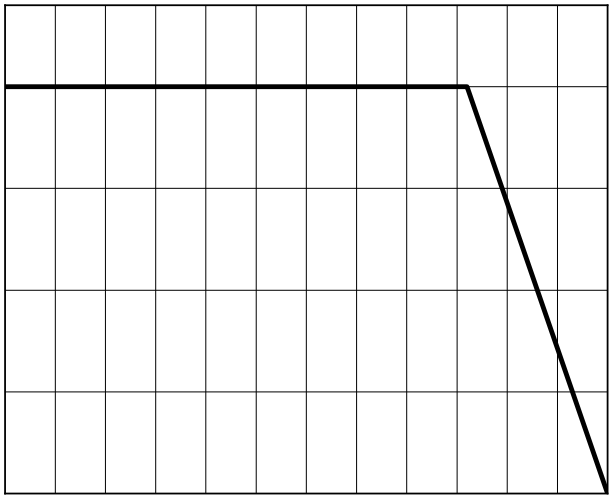


Fig.2:Maximum Non-Repetitive Peak Forward Surge Current

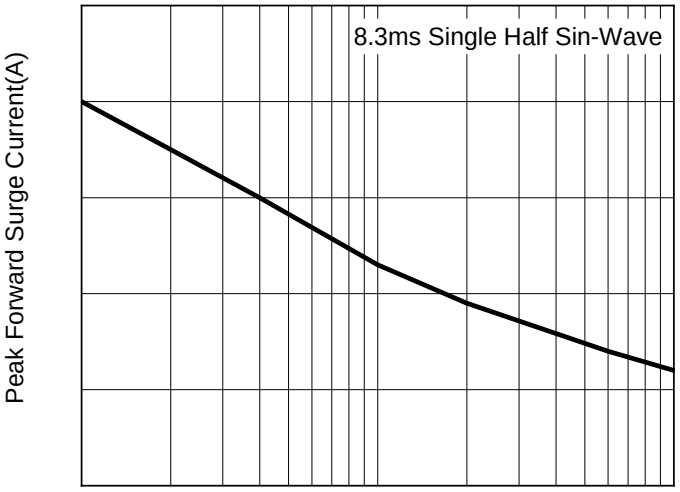


Fig.3:Typical Instantaneous Forward Characteristics

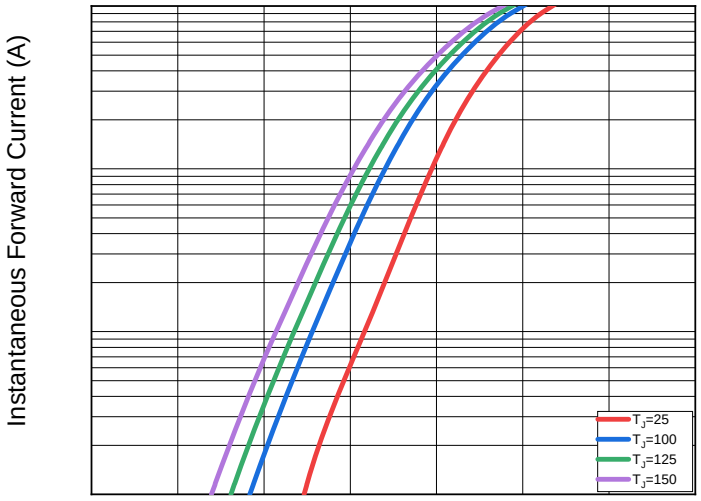
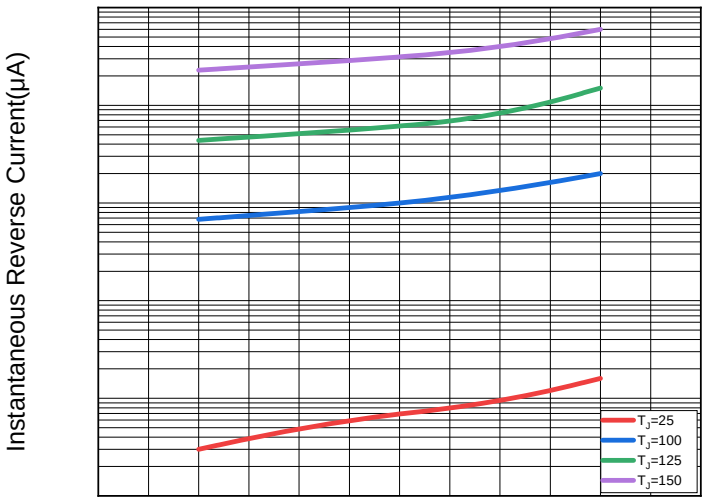


Fig.4:Typical Reverse Leakage Characteristics



■ (Example)

SS115AQ-SS120AQ	F2	Approximate 0.067	7500	120000	13” reel

■

Dim	Min	Max
A	1.25	1.58
B		

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 , or consult your nearest Yangjie's sales office for further assistance.