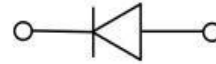


SS12A THRU SS120A

Schottky Rectifier

Features

- Low power loss
- Ideal for automated placement
- Guardring for overvoltage protection
- Extremely fast switching
- High frequency operation
- High forward surge capability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C



Typical Application

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

Mechanical Data

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

Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions	SSxxA						
				12	14	16	18	110	115	120
Repetitive Peak Reverse Voltage	V _{RRM}	V		20	40	60	80	100	150	200
Average Forward Current	I _{F(AV)}	A	Half-sine wave, Resistance load, Ta(FIG.1)	1.0						
Surge(Nonrepetitive)Forward Current	I _{FSM}	A	60HZ sine wave, 1 cycle, Ta=25°C	30						
Current Squared Time	I ² t	A ² s	1ms ≤ t < 8.3ms T _j =25°C, Rating of per diode	3.7						
Thermal Resistance	R _{θJ-A}	°C/W	Between junction and case	88						
Storage Temperature	T _{stg}	°C		-55 ~ +125			-55 ~ +150			
Junction Temperature	T _j	°C		-55 ~ +150						

Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions	SSxxA						
				12	14	16	18	110	115	120
Peak Forward Voltage	V _{FM}	V	I _{FM} = 1.0A	0.55		0.70		0.85		0.90
Peak Reverse Current	I _{RRM1}	mA	V _{RM} =V _{RRM}	Ta=25°C		0.5		0.1		
	I _{RRM2}			Ta=125°C		10		5		



SS12A THRU SS120A

■ Characteristics (Typical)

FIG1: Forward Current Derating Curve

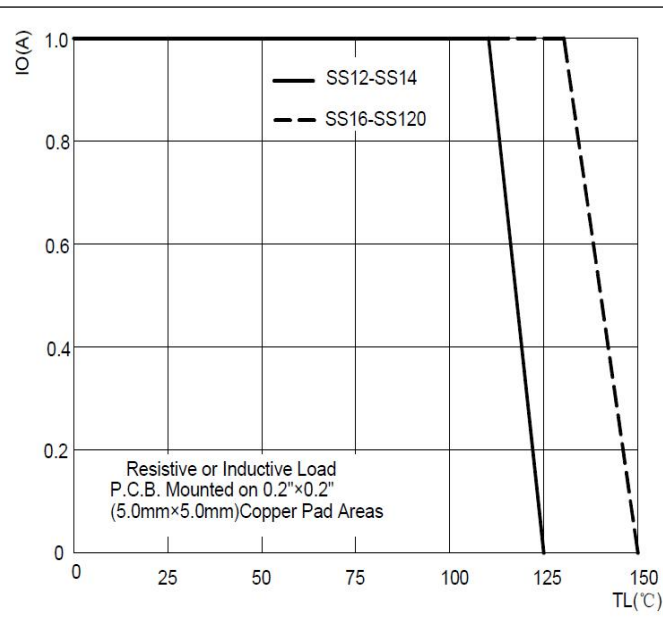


FIG2: Surge Forward Current Capability

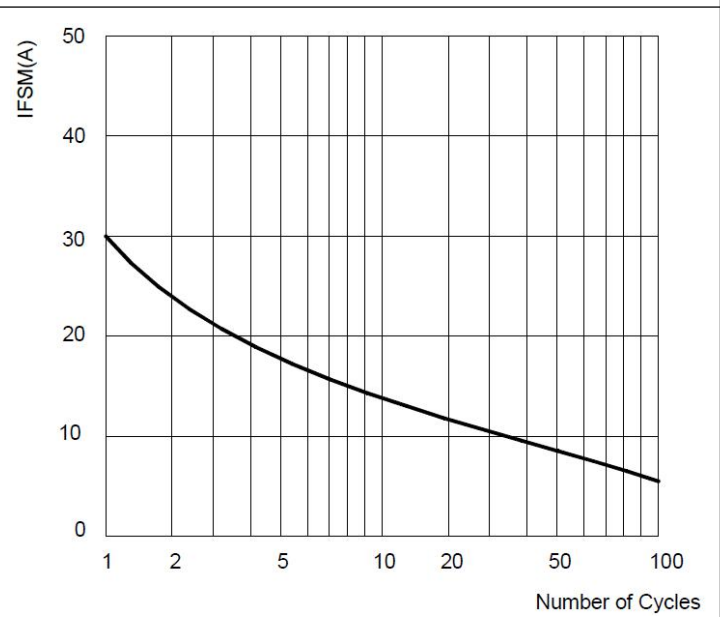


FIG3: Typical Forward Characteristics

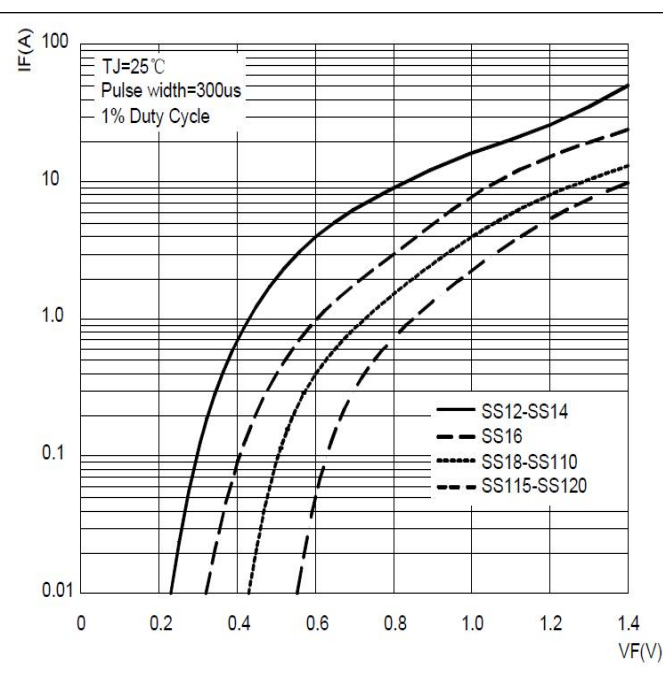
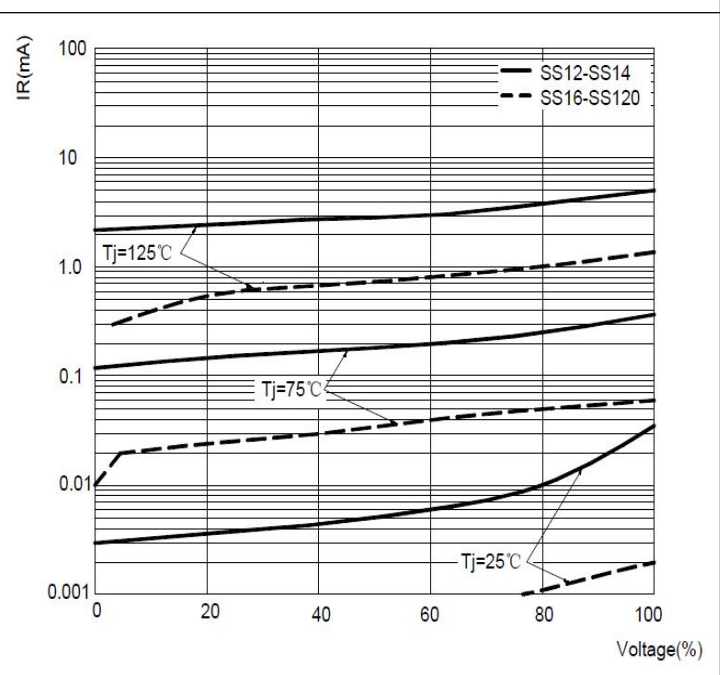


FIG4: Typical Reverse Characteristics



SS12A THRU SS120A

Ordering Information (Example)

PREFERRED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS12A~SS120A	DO-214AC(SMA)	5000	10000	80000	13" reel
SS12A~SS120A	DO-214AC(SMA)	7500	15000	120000	13" reel

Outline Dimensions

