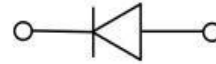


### Features

- 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	SS/SK**A						
				32	34	36	38	310	315	320
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)	3.0						
Surge(Nonrepetitive)Forward Current	$I_{FSM}$	A	60HZ sine wave, 1 cycle, Ta=25°C	60						
Current Squared Time	$I^2t$	A <sup>2</sup> s	1ms≤t<8.3ms Tj=25°C, Rating of per diode	14.9						
Thermal Resistance	$R_{\theta J-A}$	°C/W	Between junction and case	55						
Storage Temperature	$T_{stg}$	°C		-55 ~ +125			-55 ~ +150			
Junction Temperature	$T_j$	°C		-55 ~ +150						

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

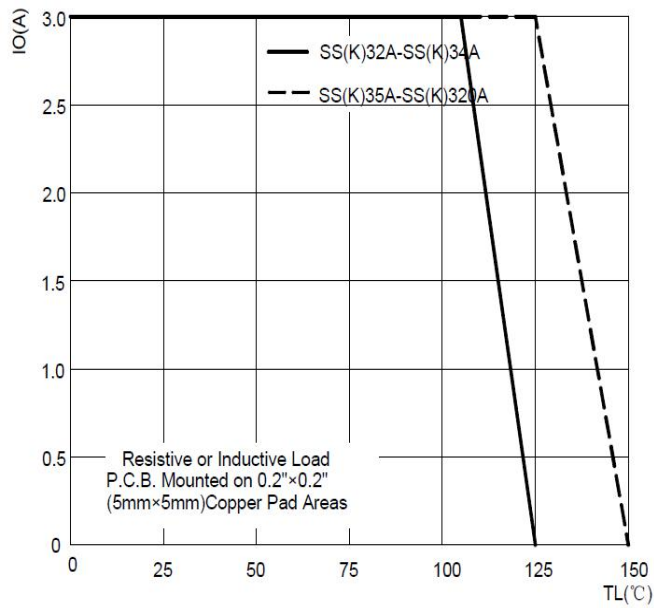
PARAMETER	Symbol	Unit	Conditions	SS/SK**A						
				32	34	36	38	310	315	320
Peak Forward Voltage	$V_{FM}$	V	$I_{FM} = 3.0A$	0.55		0.70	0.85		0.90	
Peak Reverse Current	$I_{RRM1}$	mA	$V_{RM} = V_{RRM}$	Ta=25°C			0.1			
	$I_{RRM2}$			Ta=125°C			5			



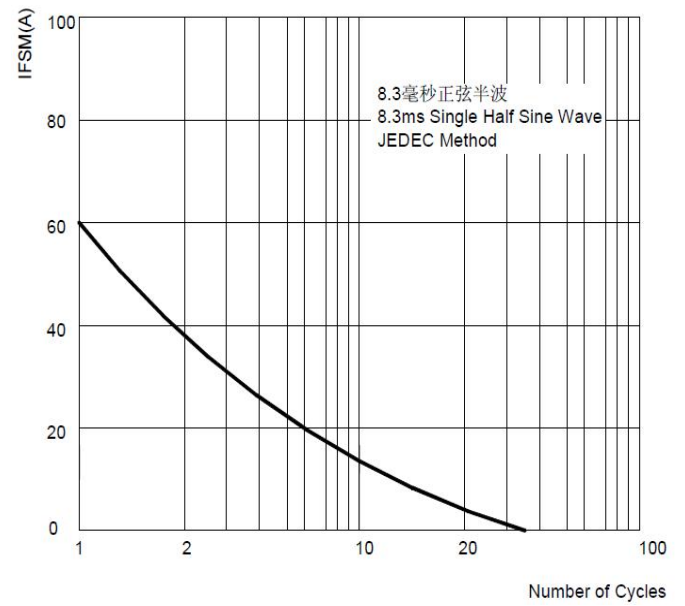
## SS32A THRU SS320A (SK32A THRU SK320A)

### ■ Characteristics (Typical)

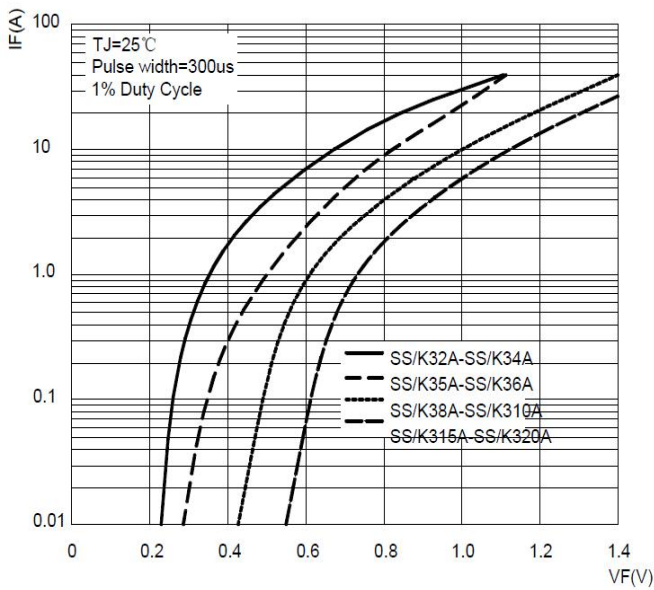
**FIG1: Forward Current Derating Curve**



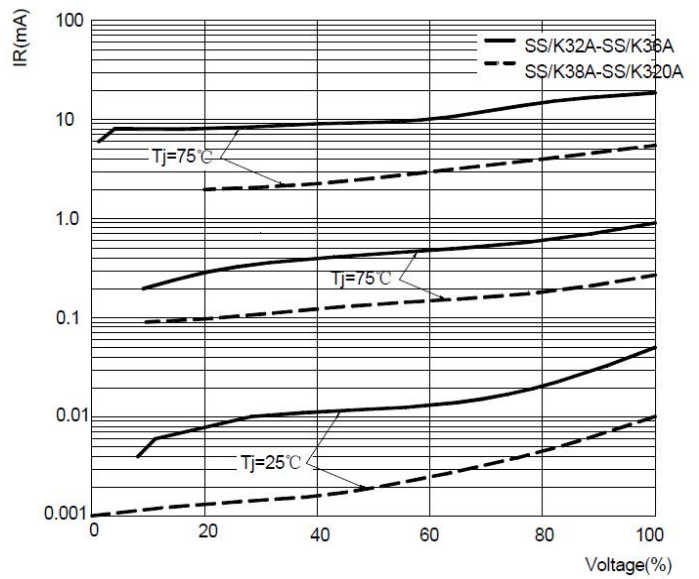
**FIG2: Maximum Non-Repetitive Forward Surge Current**



**FIG3: Typical Forward Characteristics**



**FIG4: Typical Reverse Characteristics**



## SS32A THRU SS320A (SK32A THRU SK320A)

### Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS32A~SS320A	DO-214AC(SMA)	5000	10000	80000	13" reel
SS32A~SS320A	DO-214AC(SMA)	7500	15000	120000	13" reel

### Outline Dimensions

