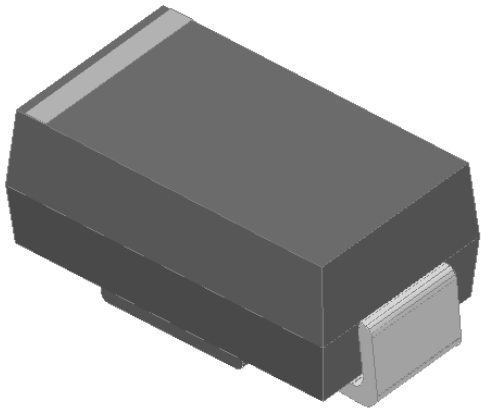
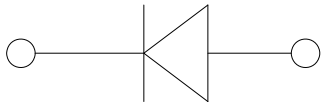
Surface Mount Schottky Rectifier





Features

- 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

Typical Applications

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, halogen-free
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Cathode line denotes the cathode end

■Maximum Ratings (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS310A	SS315A	SS320A
Device marking code			SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS310A	SS315A	SS320A
Repetitive peak reverse voltage	V_{RRM}	V	20	30	40	50	60	80	100	150	200
Average rectified output current @60Hz sine wave, resistance load, Ta (FIG.1)	I_O	A	3.0								
Surge(non-repetitive)forward current @ 60Hz half-sine wave,1 cycle, Ta=25℃	I_{FSM}	A	70								
Storage temperature	Tstg	℃	-55 ~+150								
Junction temperature	Tj	℃	-55~+125			-55 ~+150					

■Electrical Characteristics (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS310A	SS315A	SS320A
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=3.0A	0.50			0.70		0.85		0.90	
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM	I_{RRM}	mA	Ta=25℃	0.50					0.10			
			Ta=100℃	10			5.0					

■Thermal Characteristics (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS310A	SS315A	SS320A
Thermal resistance	RθJ-A(1)	℃/W	55[1)]								
	RθJ-L(1)		17[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

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS32A-SS320A	F2	Approximate 0.059	2000	8000	64000	7” reel
SS32A-SS320A	F1	Approximate 0.059	5000	10000	80000	13” reel

■ Characteristics (Typical)

FIG.1: FORWARD CURRENT DERATING CURVE

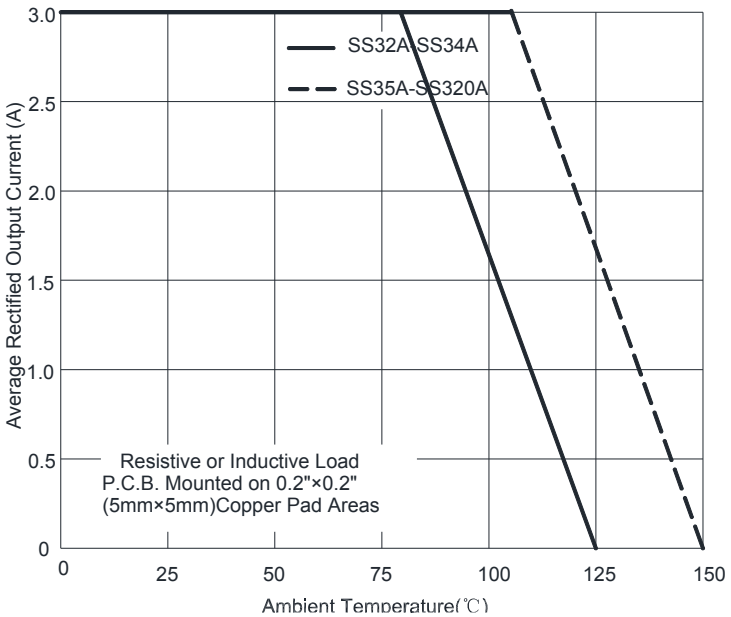


FIG2:Surge Forward Current Capability

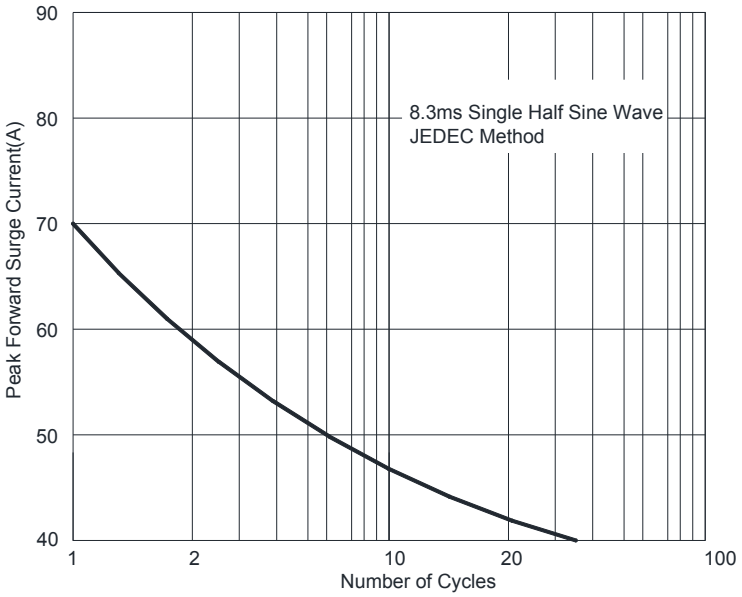


FIG.3: TYPICAL FORWARD CHARACTERISTICS

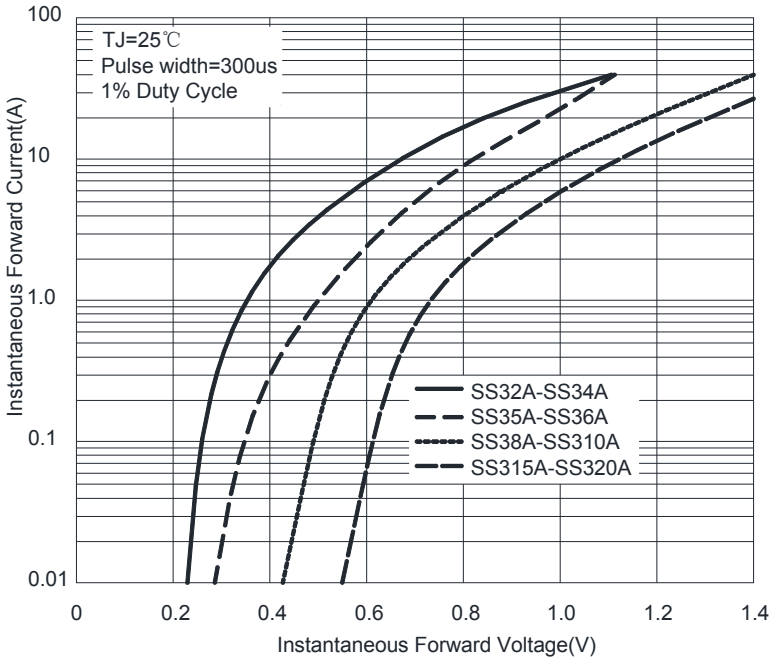
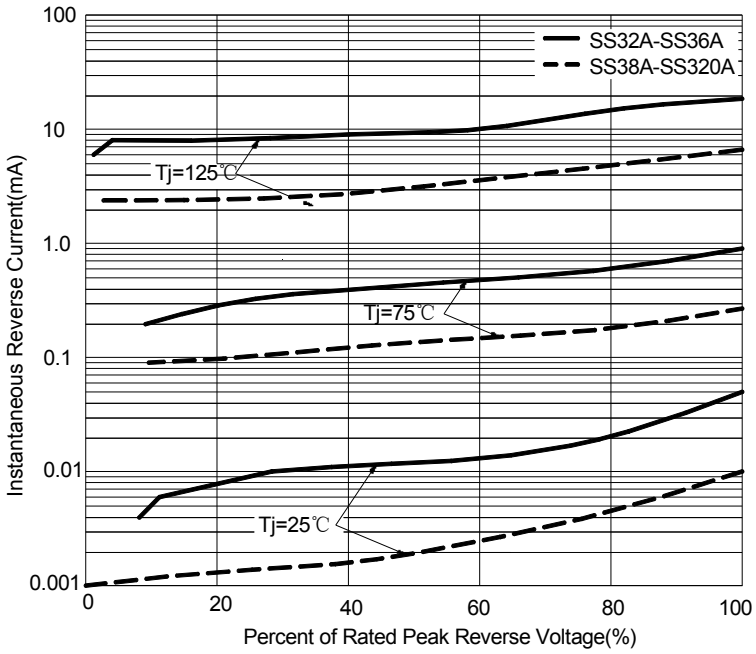
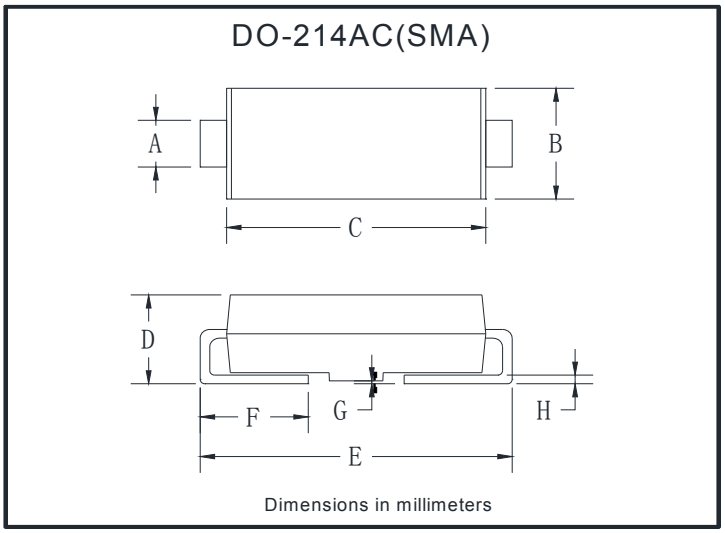


FIG.4：TYPICAL REVERSE CHARACTERISTICS

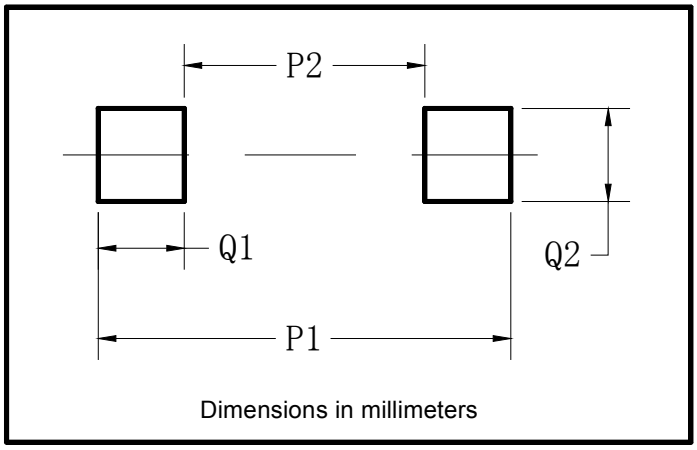


■ Outline Dimensions



DO-214AC(SMA)		
Dim	Min	Max
A	1.25	1.58
B	2.40	2.83
C	4.25	4.75
D	1.90	2.30
E	4.93	5.28
F	0.76	1.41
G	0.08	0.20
H	0.15	0.31

■ Suggested Pad Layout



Dim	Min
P1	5.58
P2	1.66
Q1	1.96
Q2	2.04

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