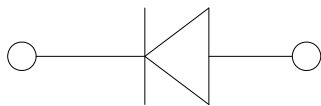


Surface Mount Schottky Rectifier



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, -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°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS310AS
Device marking code			SS310AS
Repetitive peak reverse voltage	V _{RRM}	V	100
Average rectified output current @60Hz sine wave, resistance load, TL (FIG.1)	I _O	A	3.0
Surge(non-repetitive)forward current @60Hz half-sine wave, 1 cycle, T _a =25°C	I _{FSM}	A	65
Storage temperature	T _{stg}	°C	-55 ~+175
Junction temperature	T _j	°C	-55 ~+175

■ Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SS310AS
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =3.0A	0.85
Breakdown Voltage	V _R	V	I _R =0.05mA	100
Maximum DC reverse current at rated DC blocking voltage per diode@ V _{RM} =V _{RRM}	I _{RRM}	mA	T _a =25°C	0.10
			T _a =100°C	5.0

Note1:Pulse test:300uS pulse width,1% duty cycle

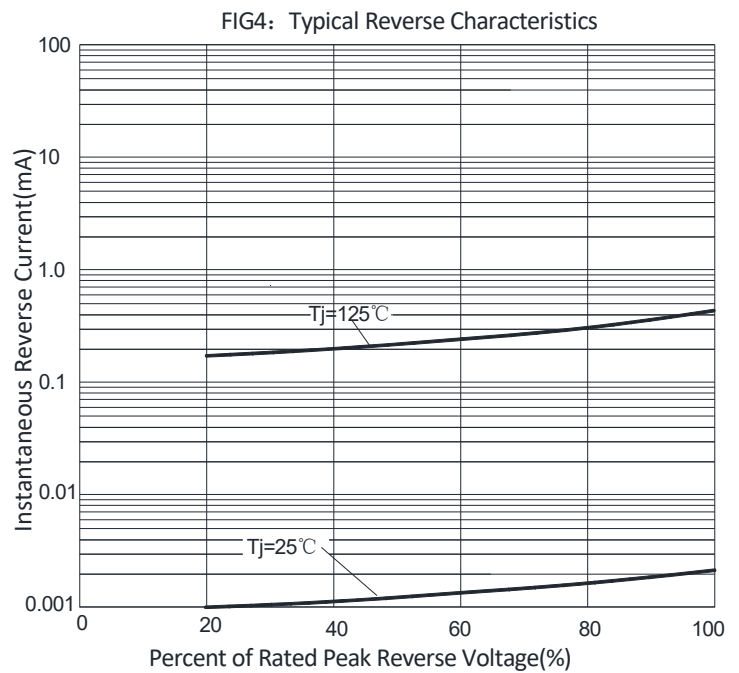
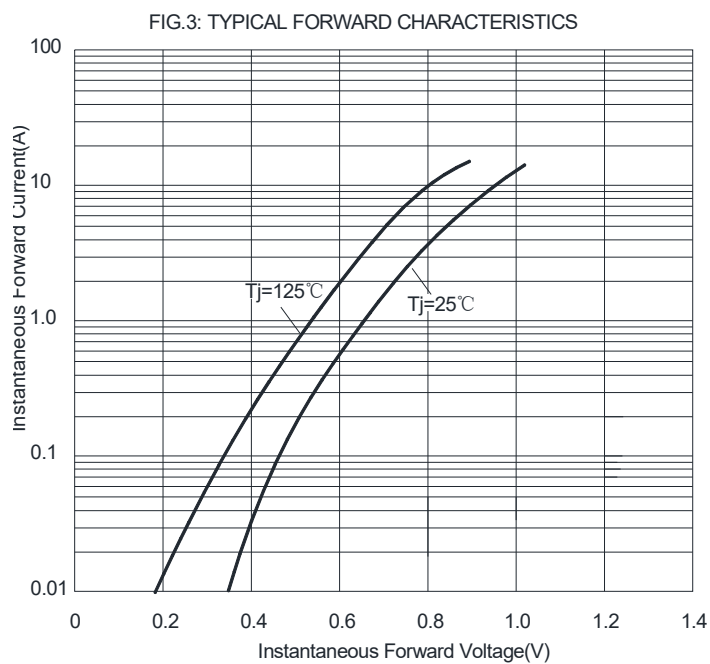
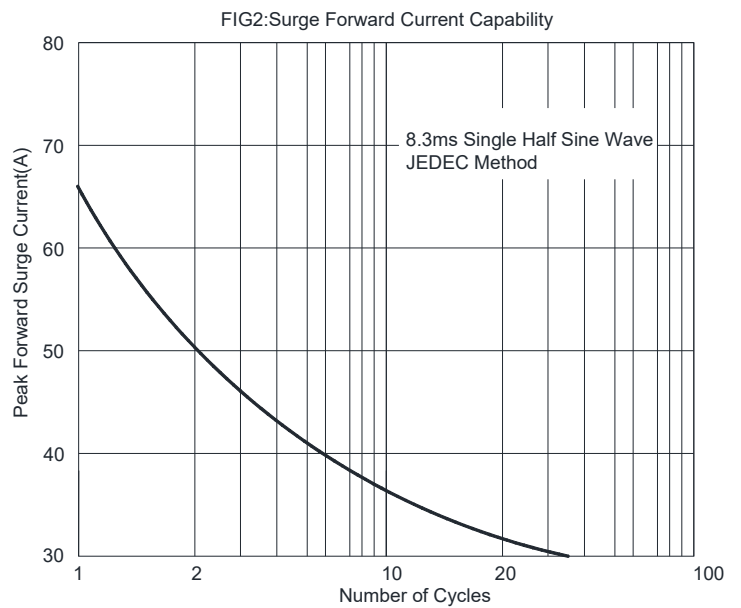
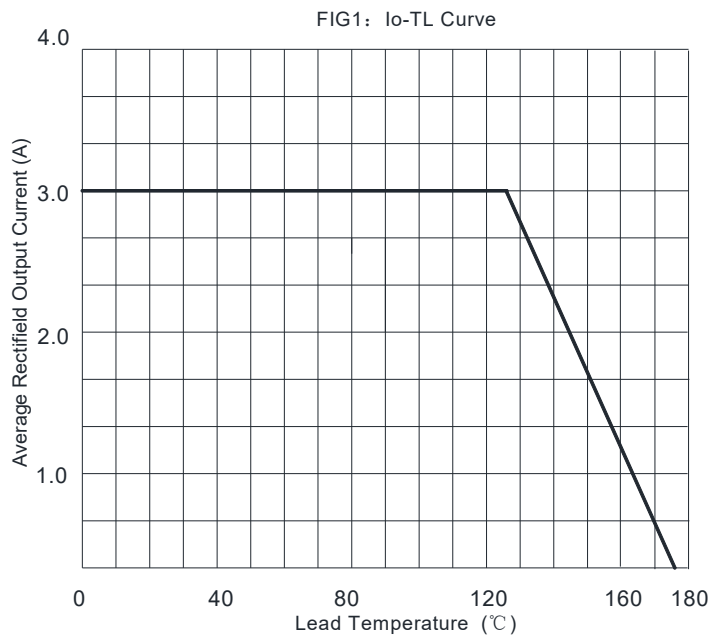
Note2:Pulse test:pulse width 40mS

SS310AS

■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS310AS
Thermal resistance	R _{θJA}	°C/W	80
	R _{θJL}		20

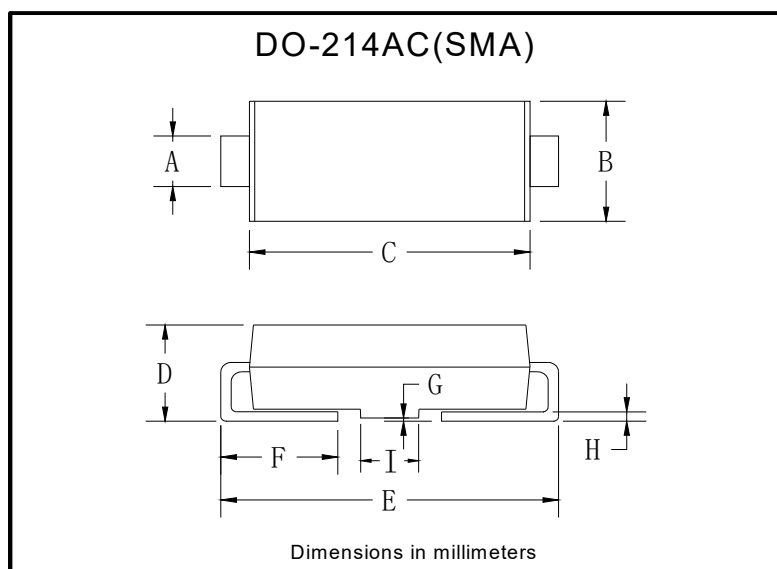
■ Characteristics (Typical)



■ Ordering Information (Example)

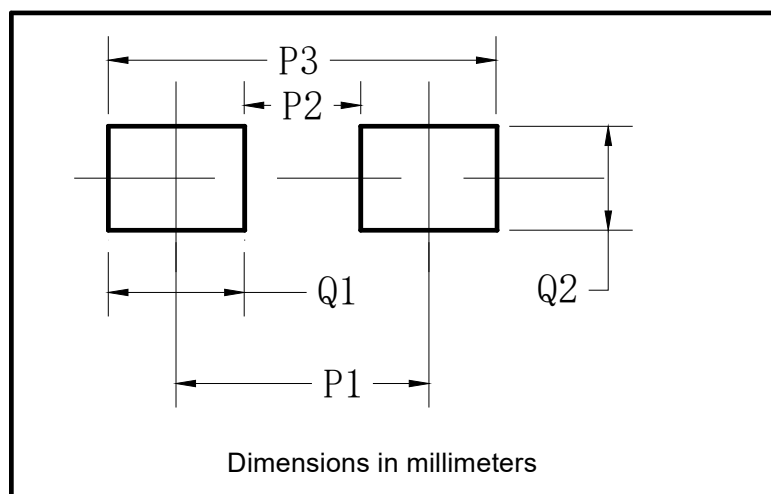
PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS310AS	F1	Approximate 0.059	5000	/	80000	13" reel
SS310AS	F2	Approximate 0.059	7500	/	120000	13" reel
SS310AS	F3	Approximate 0.059	7500	/	60000	13" reel
SS310AS	F4	Approximate 0.059	1800	7200	57600	7" reel
SS310AS	F5	Approximate 0.059	2000	8000	64000	7" reel
SS310AS	F6	Approximate 0.059	5000	/	100000	13" reel

■ Outline Dimensions



DO-214AC(SMA)		
Dim	Min	Max
A	1.25	1.58
B	2.40	2.83
C	4.00	4.75
D	1.90	2.30
E	4.93	5.28
F	0.76	1.41
G	0.05	0.20
H	0.15	0.31
I	1.70	2.10

■ Suggested Pad Layout



DO-214AC(SMA)	
Dim	Millimeters
P1	4.00
P2	1.50
P3	6.50
Q1	2.50
Q2	1.70

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