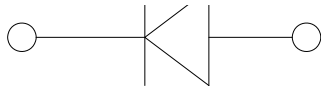
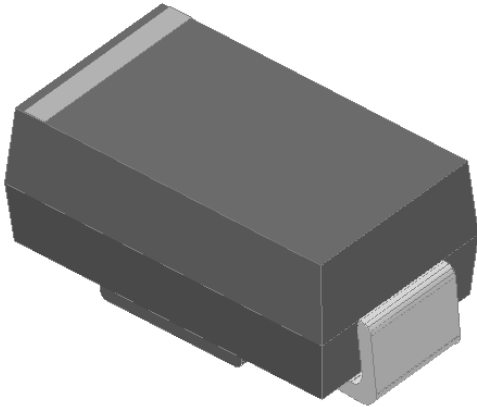


Surface Mount Schottky Rectifier



Features

- Low profile package
- Ideal for automated placement
- 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 (T_j=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS14AT
Device marking code			SS14AT
Repetitive peak reverse voltage	V _{RRM}	V	40
Maximum RMS Voltage	V _{RMS}	V	28
Average rectified output current @60Hz sine wave, resistance load, TL (FIG.1)	I _O	A	1.0
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, T _j =25°C	I _{FSM}	A	30
Storage temperature	T _{stg}	°C	-55 ~+150
Junction temperature	T _j	°C	-55~+150
Typical Junction capacitance @4V,1MHz	C _j	pF	55

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SS14AT
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =1.0A	0.55
Maximum DC reverse current at rated DC blocking voltage per diode@ V _{RM} =V _{RRM}	I _{RRM}	mA	T _j =25°C	0.10
			T _j =125°C	10

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

Note2:Pulse test:pulse width 40mS



SS14AT

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

PARAMETER	SYMBOL	UNIT	SS14AT
Thermal resistance	R _{θJA}	°C/W	65
	R _{θJL}		20

■ Characteristics (Typical)

FIG1: I_o-T_L Curve

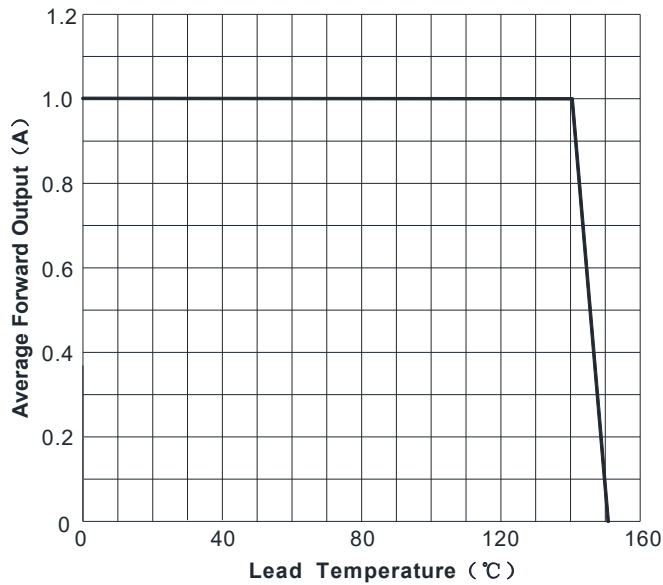


FIG2: Surge Forward Current Capability

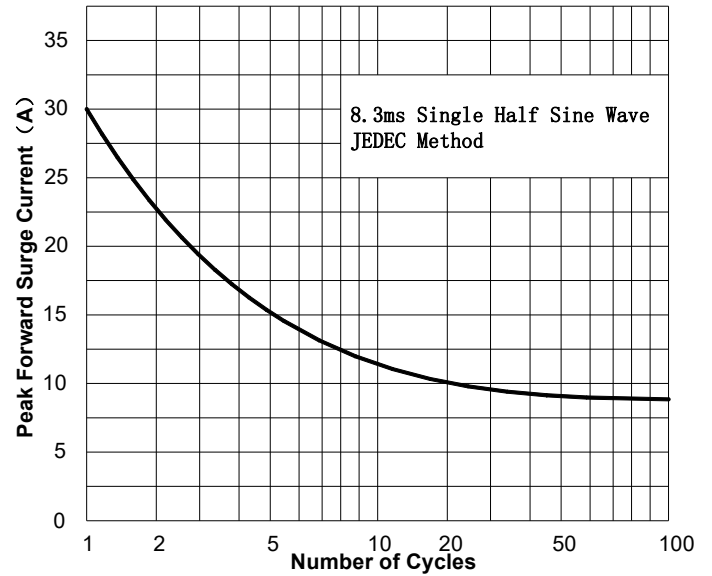


FIG3: Forward Voltage

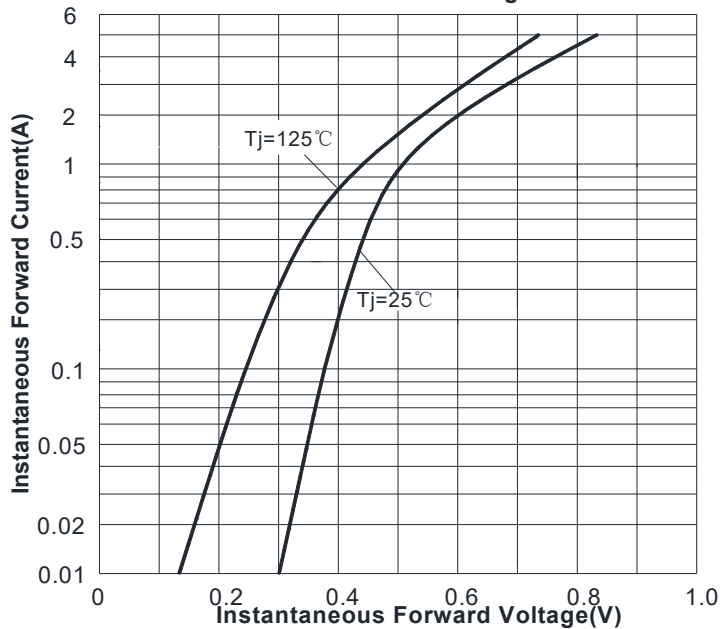
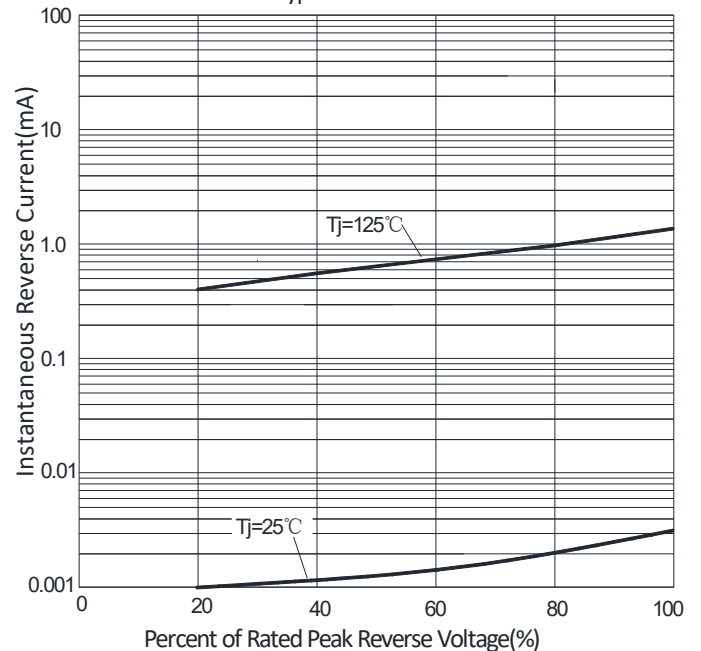


FIG4: Typical Reverse Characteristics



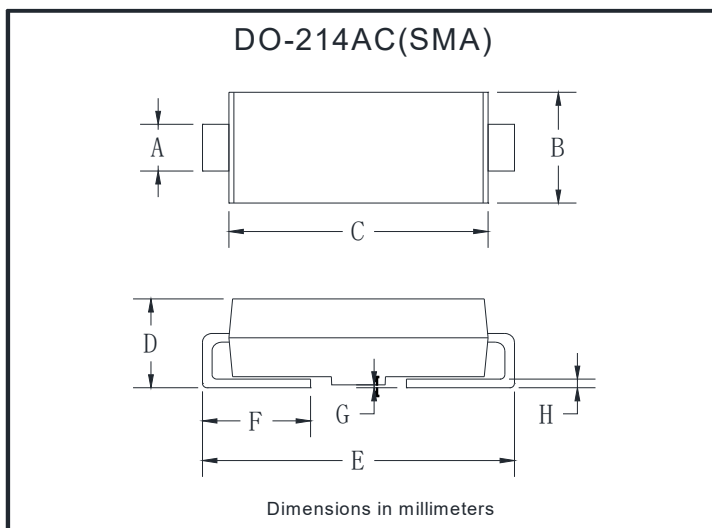


SS14AT

■ Ordering Information (Example)

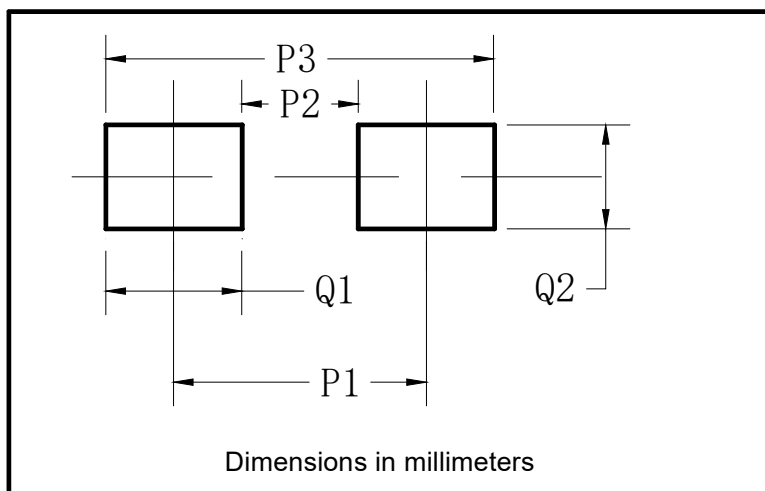
PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS14AT	F1	Approximate 0.059	5000	/	80000	13" reel
SS14AT	F2	Approximate 0.059	7500	/	120000	13" reel
SS14AT	F3	Approximate 0.059	7500	/	60000	13" reel
SS14AT	F4	Approximate 0.059	1800	7200	57600	7" reel
SS14AT	F5	Approximate 0.059	2000	8000	64000	7" reel
SS14AT	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	0.08	0.20
H	0.15	0.31

■ 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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