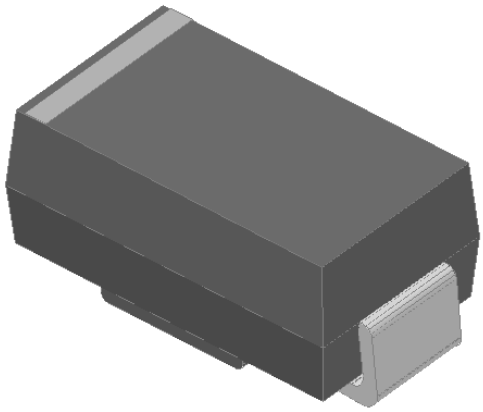
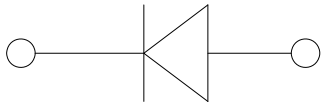
Surface Mount Schottky Rectifier





Features

- Low profile package
- Ideal for automated placement
- Guardring for overvoltage protection
- Low power losses, high efficiency
- Low VF
- 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	SSL24A	SSL26A	SSL210A
Device marking code			SSL24A	SSL26A	SSL210A
Repetitive peak reverse voltage	V_{RRM}	V	40	60	100
Average rectified output current @60Hz sine wave, resistance load, TL (FIG.1)	I_O	A	2.0		
Surge(non-repetitive)forward current @ 60Hz half-sine wave,1 cycle, Ta=25℃	I_{FSM}	A	50		
Storage temperature	T_{stg}	℃	-55 ~+150		
Junction temperature	Tj	℃	-55 ~+150		

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SSL24A	SSL26A	SSL210A
Maximum instantaneous forward voltage drop per diode	V_F	V	I_{FM}=2.0A	0.47	0.55	0.75
Maximum DC reverse current at rated DC blocking voltage per diode@ $V_{RM}=V_{RRM}$	I_{RRM}	mA	Ta=25℃	0.50		
			Ta=100℃	10		

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

PARAMETER	SYMBOL	UNIT	SSL24A	SSL26A	SSL210A
Thermal resistance	$R_{\theta J-A}$	℃/W	60[1)]		
	$R_{\theta J-L}$		20[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

■ Characteristics (Typical)

FIG1：Io-TL Curve

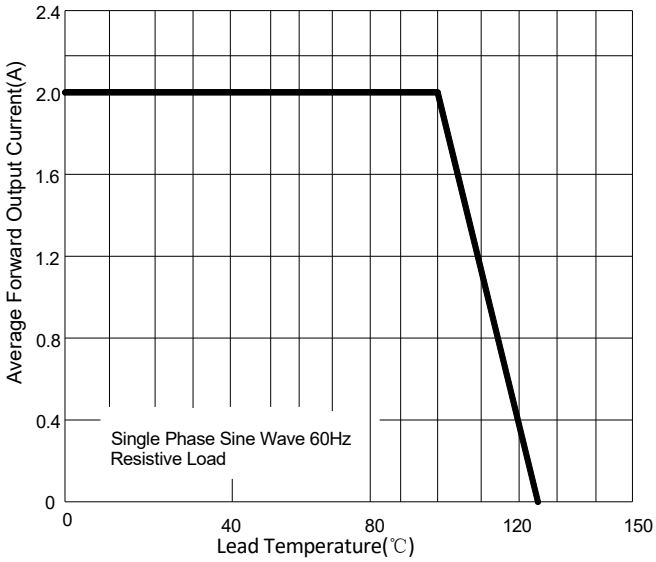


FIG2:Surge Forward Current Capability

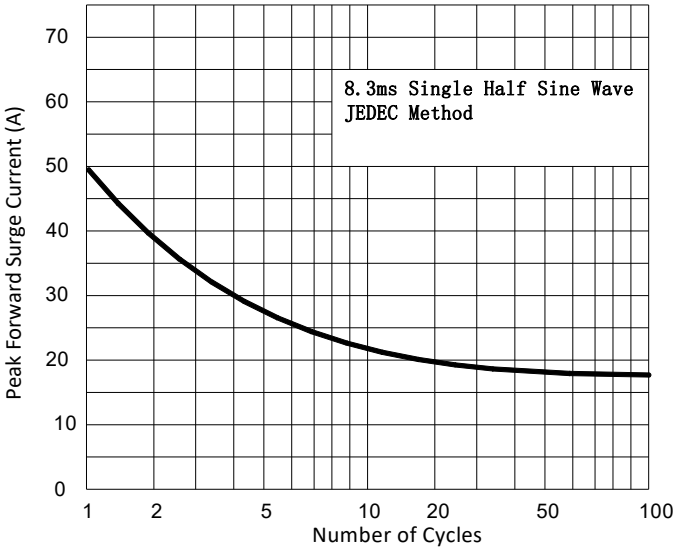


FIG3：Forward Voltage

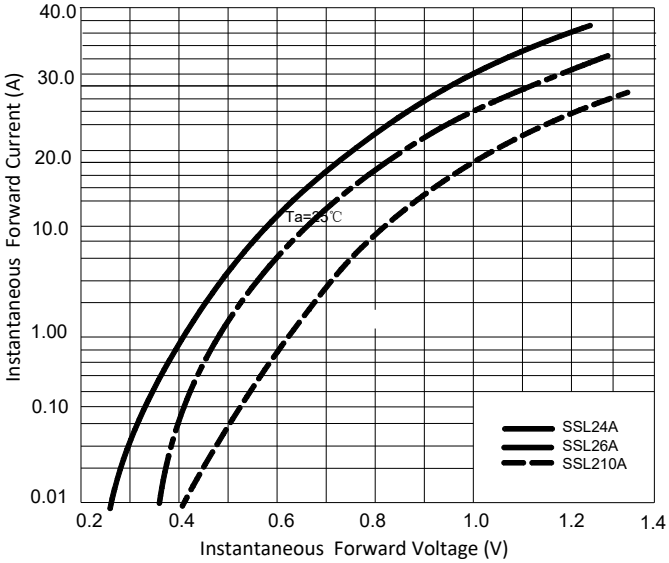
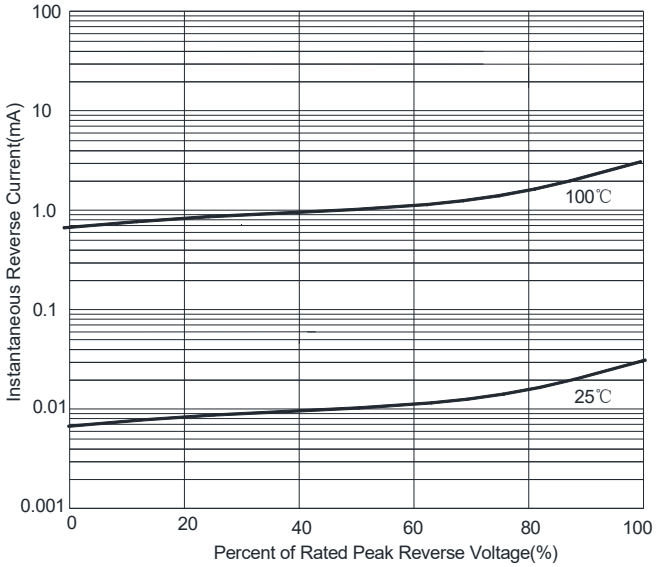


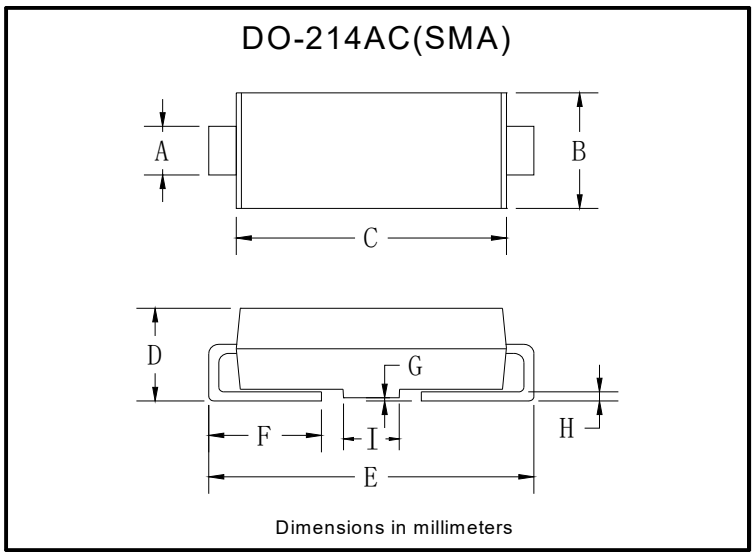
FIG.4：TYPICAL REVERSE CHARACTERISTICS



■Ordering Information (Example)

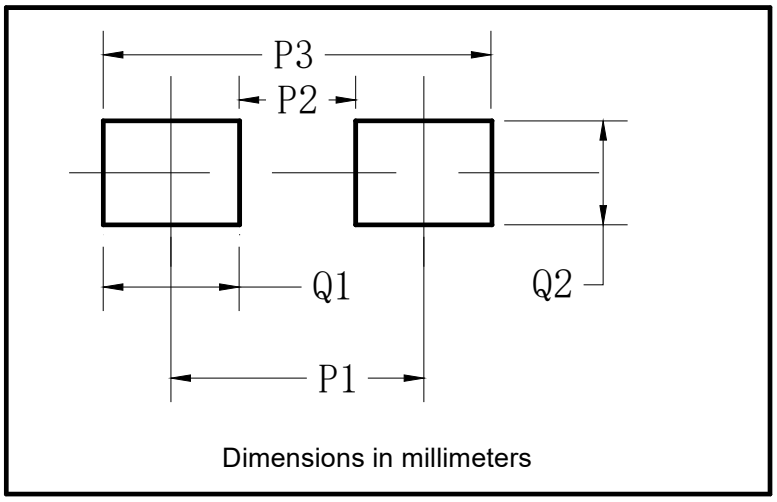
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SSL24A-SSL210A	F1	Approximate 0.059	5000	/	80000	13” reel
SSL24A-SSL210A	F2	Approximate 0.059	7500	/	120000	13” reel
SSL24A-SSL210A	F3	Approximate 0.059	7500	/	60000	13” reel
SSL24A-SSL210A	F4	Approximate 0.059	1800	7200	57600	7” reel
SSL24A-SSL210A	F5	Approximate 0.059	2000	8000	64000	7” reel
SSL24A-SSL210A	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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