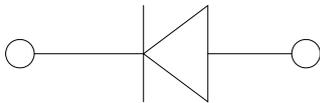
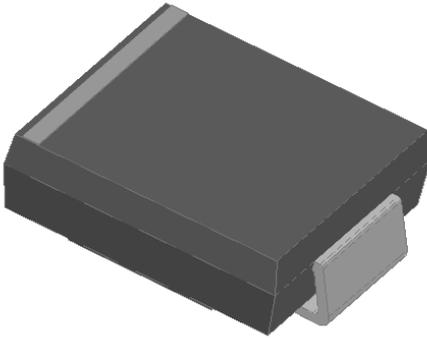


Surface Mount Schottky Rectifier



Features

- Guardring for overvoltage protection
- Low power loss
- Extremely fast switching
- High forward surge capability
- High frequency operation
- Solder dip 260 °C max. 10 s, per JESD 22-B106

Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

Mechanical Data

- **Package:** DO-214AB (SMC)
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Color band denotes the cathode end

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS102	SS103	SS104	SS105	SS106	SS108	SS1010	SS1015	SS1020
Device marking code			SS102	SS103	SS104	SS105	SS106	SS108	SS1010	SS1015	SS1020
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, TL (FIG.1)	I _O	A	10.0								
Surge(Non-repetitive)Forward Current @60Hz Half-sine wave, 1 cycle, Ta=25°C	I _{FSM}	A	120								
Storage Temperature	T _{stg}	°C	-55 ~+150								
Junction Temperature	T _j	°C	-55~+125				-55 ~+150				

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SS102	SS103	SS104	SS105	SS106	SS108	SS1010	SS1015	SS1020
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =8.0A	0.6			0.7	0.85		0.95		
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	mA	Ta=25°C	0.2				0.1				
			Ta=100°C	20				5.0				

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

PARAMETER	SYMBOL	UNIT	SS102	SS103	SS104	SS105	SS106	SS108	SS1010	SS1015	SS1020
Thermal Resistance	Between junction and ambient	R _{θJA}	65 ⁽¹⁾								
	Between junction and lead	R _{θJL}	8 ⁽¹⁾								

Note (1)

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.6" x 0.6" (16 mm x 16 mm) copper pad areas



SS102 THRU SS1020

Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS102~SS1020	F1	Approximate 0.254	3000	/	42000	13" reel

Characteristics (Typical)

FIG.1: Io-TL Curve

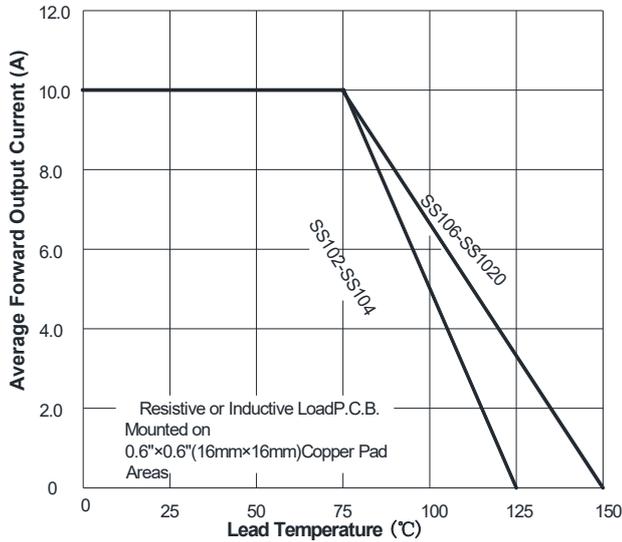


FIG.2: Forward Surge Current Capability

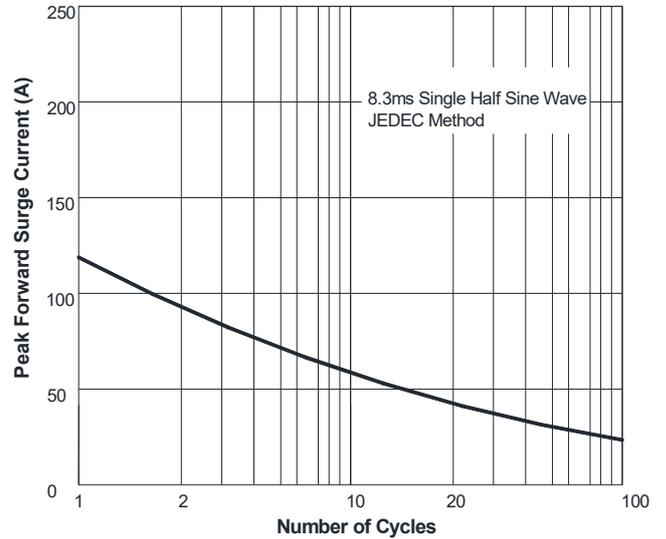


FIG.3: Forward Voltage

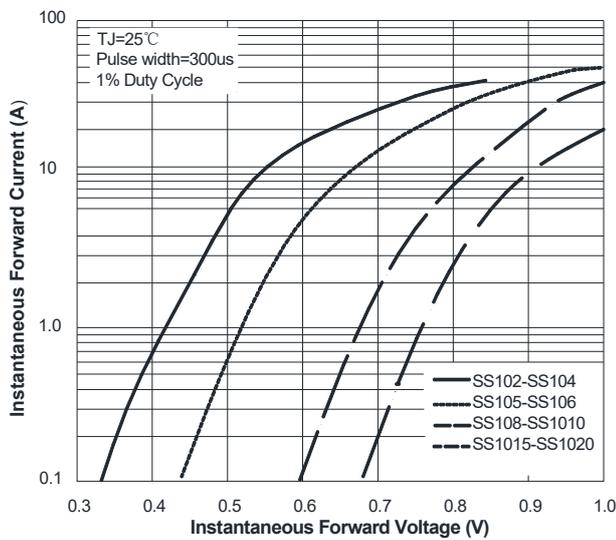
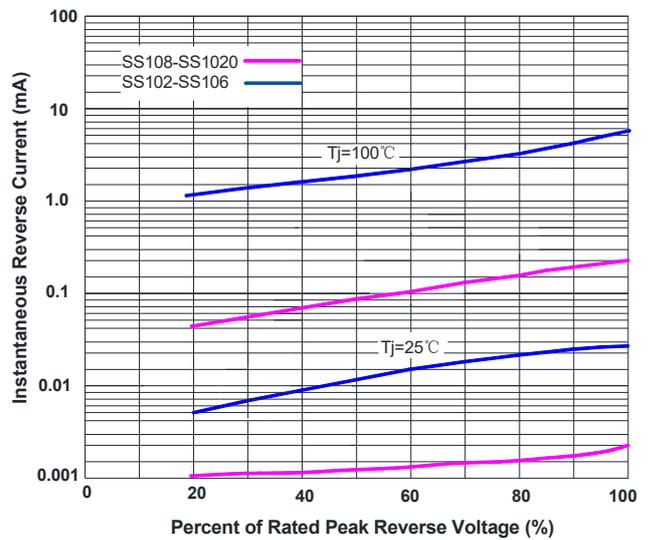
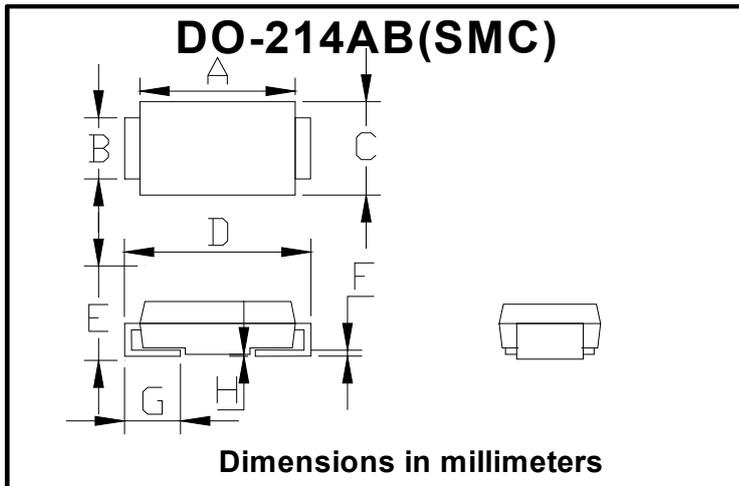


FIG.4: Typical Reverse Characteristics



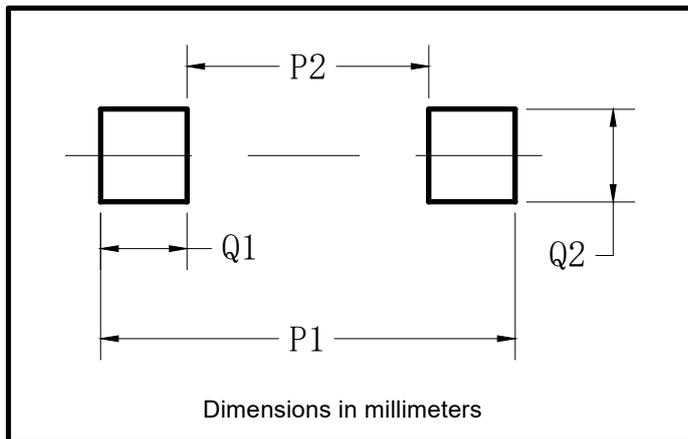


■ Outline Dimensions



DO-214AB (SMC)		
Dim	Min	Max
A	6.60	7.11
B	2.85	3.27
C	5.59	6.22
D	7.75	8.13
E	1.99	2.61
F	0.15	0.31
G	0.76	1.52
H	0.05	0.20

■ Suggested pad layout



DO-214AB (SMC)	
Dim	Min
P1	9.9
P2	3.84
Q1	3.03
Q2	3.82



SS102 THRU SS1020

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