



## Surface Mount Schottky Rectifier

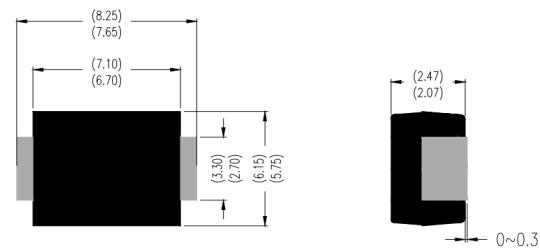
### Features

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

### Typical Applications

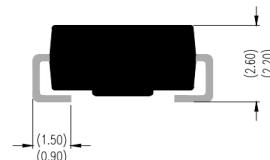
For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

DO-214AB (SMC)



### 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



Unit : inch(mm)



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

PARAMETER	SYMBOL	UNIT	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	20	30	40	50	60	80	100	150	200
Average Rectified Output Current @60Hz sine wave, Resistance load, Ta (FIG.1)	I <sub>O</sub>	A						3.0			
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave, 1 cycle, Ta=25°C	I <sub>FSM</sub>	A						70			
Storage Temperature	T <sub>Stg</sub>	°C						-55 ~+150			
Junction Temperature	T <sub>j</sub>	°C					−55 ~+150		−55 ~+175		

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	I <sub>FM</sub> =3.0A	0.55			0.70			0.85		
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>R</sub>	mA	T <sub>a</sub> =25°C	0.5			0.10			5.0		
			T <sub>a</sub> =100°C	10								



■ Thermal Characteristics ( $T_a=25^\circ\text{C}$  Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320
Thermal Resistance	Junction to ambient	$R_{\theta J-A}$	°C/W			55 <sup>(1)</sup>						
	Junction to lead	$R_{\theta J-L}$				17 <sup>(1)</sup>						

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

■ Characteristics(Typical)

FIG.1: Io-Ta Curve

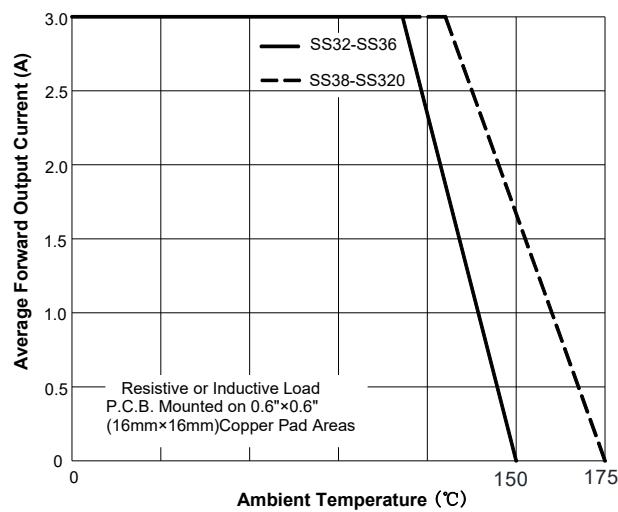


FIG.2: Forward Surge Current Capability

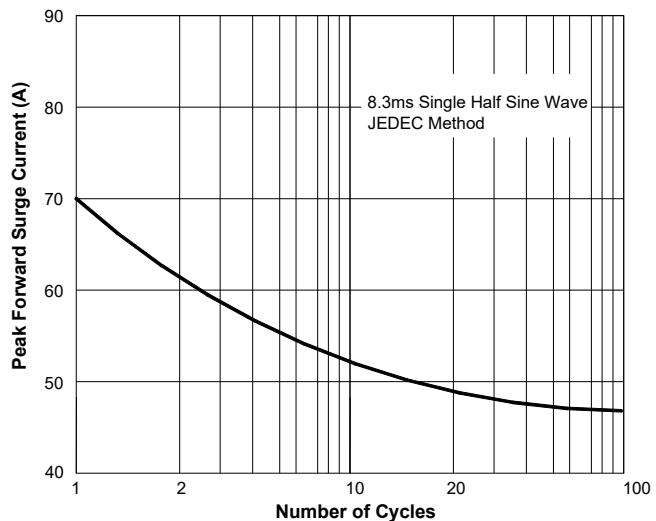


FIG.3: Forward Voltage

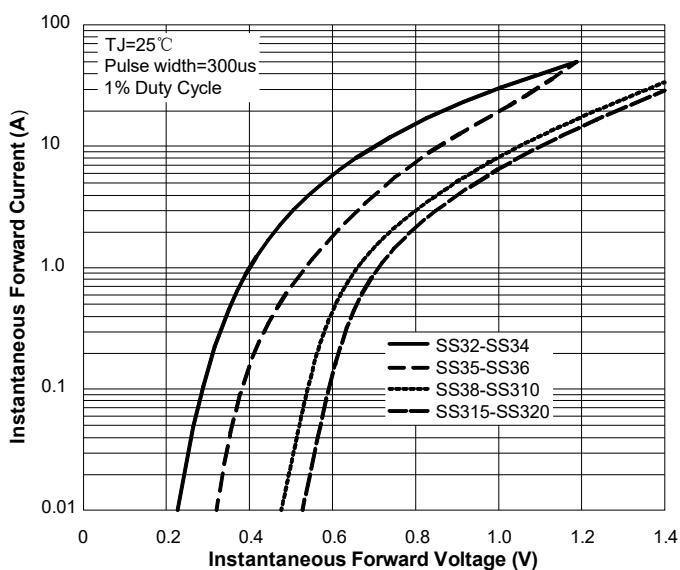


FIG4: Typical Reverse Characteristics

