

## Surface Mount Schottky Barrier Rectifier

### Reverse Voltage 60 Volts Forward Current 2.0 Ampere

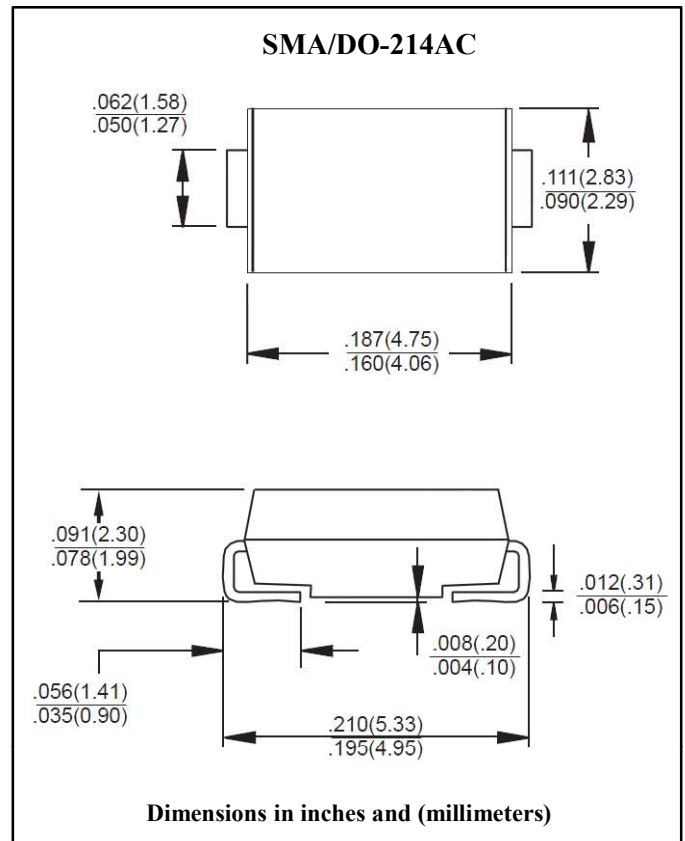
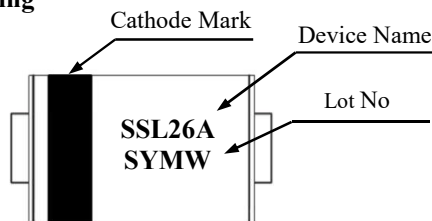
#### Features

- For surface mounted application
- Metal to silicon rectifier, majority carrier conduction
- Low forward voltage drop
- Easy pick and place
- High surge current capability
- Plastic material used carries underwriters laboratory classification 94V-O
- Epitaxial construction
- High temperature soldering : 260°C /10 seconds at terminals

#### Mechanical Data

- Case : Molded plastic
- Terminals : Solder plated
- Polarity : Indicated by cathode band
- Packaging : 12mm tape per EIA STD RS-481
- Weight : 0.064gram

#### Marking



#### Maximum Ratings & Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Single phase half wave 60 Hz, resistive or inductive load

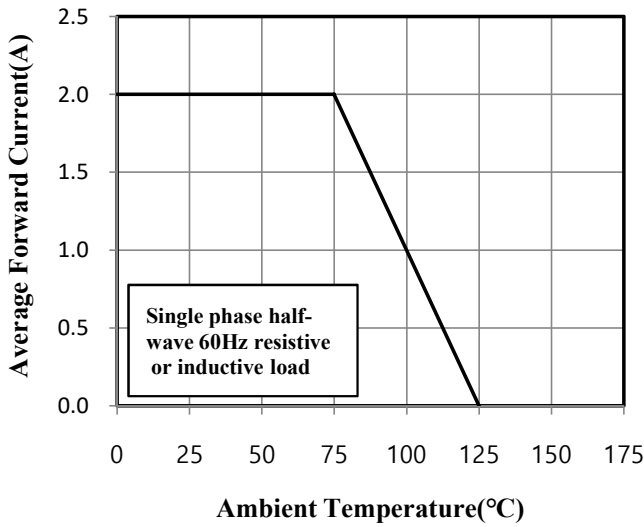
For capacitive load, derate current by 20%

Parameter	Symbol	Rated Value	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	60	V	
Maximum RMS Voltage	$V_{RMS}$	42	V	
Maximum DC Blocking Voltage	$V_{DC}$	60	V	
Maximum Average Forward Rectified Current (Fig. 1)	$I_F(AV)$	2.0	A	
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	50	A	
Maximum Instantaneous Forward Voltage at 2.0A	$V_F$	0.55	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.5	mA	Ta=25°C
		10	mA	Ta=100°C
Typical Junction Capacitance	$C_J$	220	pF	Note 1
Operation Junction Temperature Range	$T_J$	-55 to +125	°C	
Storage Temperature Range	$T_{STG}$	-55 to +150	°C	

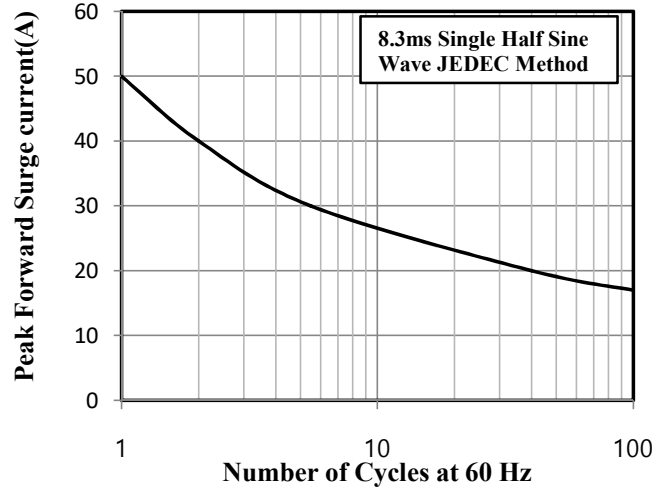
Note 1. Measured at 1.0MHz and applied reverse voltage of 4.0 volts

Ratings and Characteristics Curves ( $T_a=25^\circ\text{C}$  unless otherwise noted)

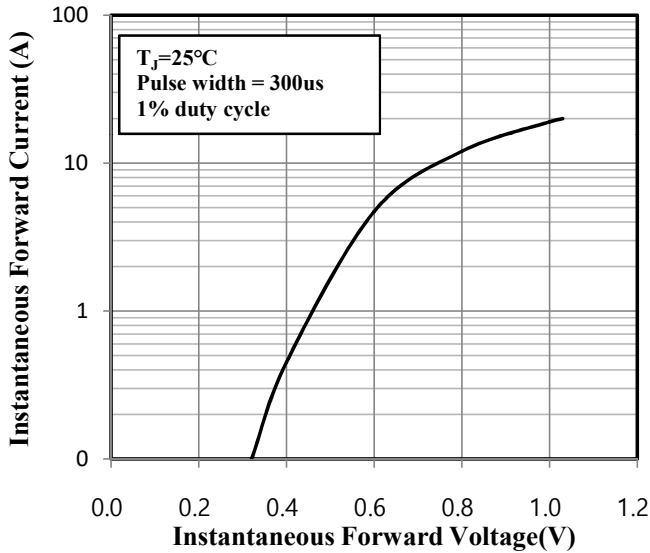
**Fig.1 Forward Current Derating Curve**



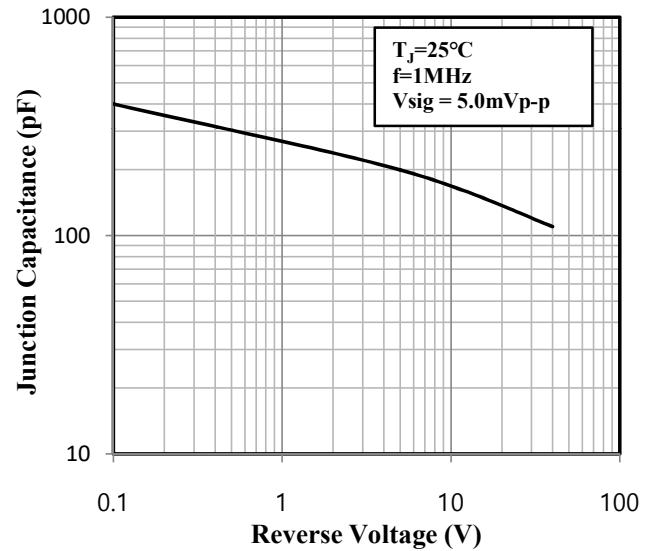
**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current**



**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Junction Capacitance**



**Fig.5 Typical Reverse Characteristics**

