

Surface Mount Rectifiers

Reverse Voltage 50 to 1000 Volts Forward Current 3.0 Amperes

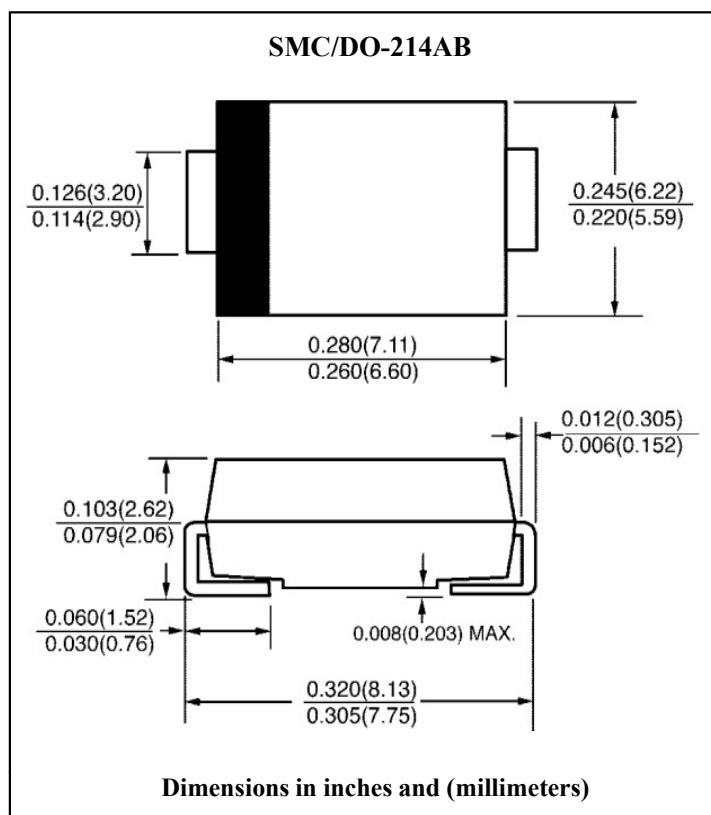
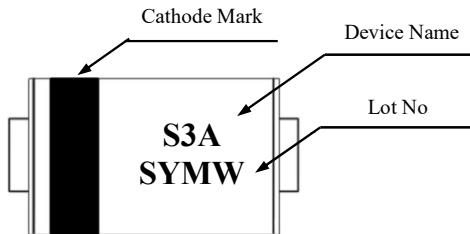
Features

- For surface mounted application
- Glass passivated junction chip
- Low forward voltage drop
- High current capability
- Easy pick and place
- High surge current capability
- Plastic material used carries underwriters laboratory classification 94V-O
- 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 : 0.21gram

Marking



Maximum Ratings & Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Single phase half wave 60 Hz, resistive or inductive load

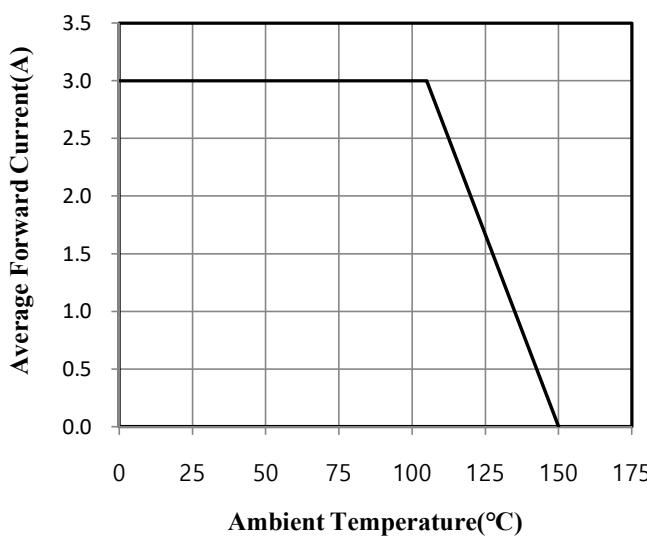
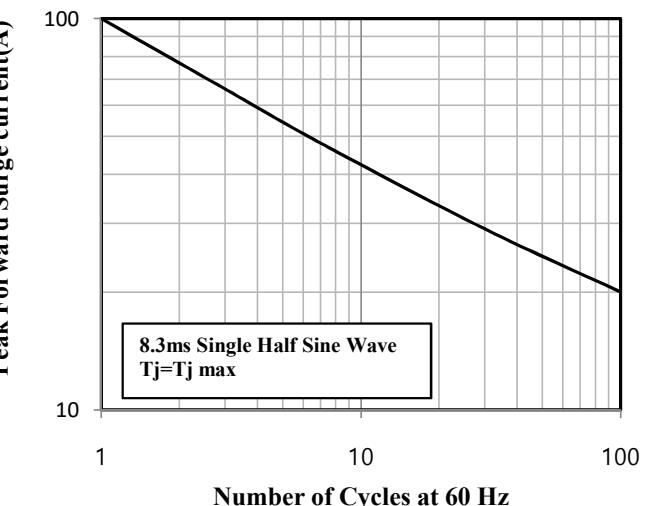
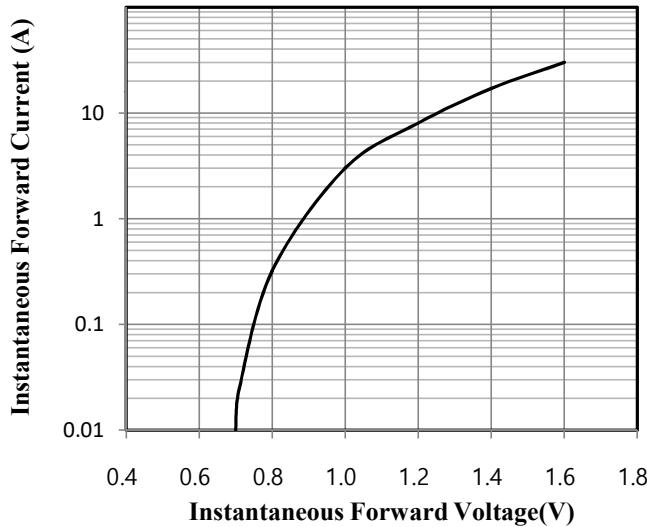
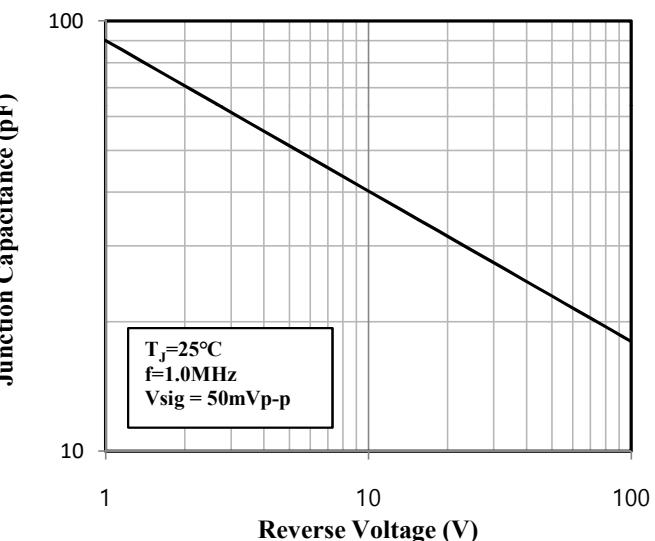
For capacitive load, derate current by 20%

Parameter	Symbol	S3A	S3B	S3D	S3G	S3J	S3K	S3M	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current	I _{F(AV)}								A	
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}								A	
Maximum Instantaneous Forward Voltage @ 3.0A	V _F								V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R								uA	Ta=25°C
									uA	Ta=125°C
Maximum Reverse Recovery Time	trr								us	Note 1
Typical Junction Capacitance	C _J								pF	Note 2
Operation Junction Temperature Range	T _J								°C	
Storage Temperature Range	T _{STG}								°C	

Note 1. Reverse Recovery Time Test Conditions : I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 2. Measured at 1MHz and Applied Reverse Voltage of 4.0Volts D.C.

Note 3. Measured on P.C.Board with 0.6" × 0.6" (16mm×16mm) Copper Pad Areas.

Ratings and Characteristics Curves (Ta=25°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**