

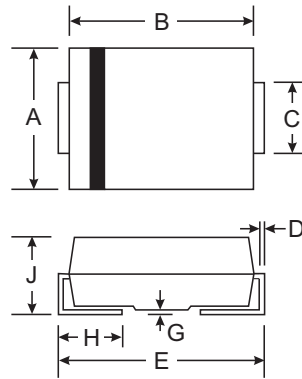
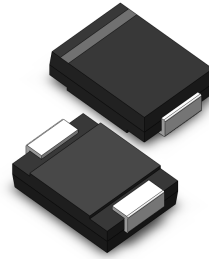
**VOLTAGE RANGE: 50 - 600V**  
**CURRENT: 3.0 A**

### Features

- High current capability
- High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- Fast switching for high efficiency

### Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)



SMC/DO-214AB		
Dim	Min	Max
A	5.59	6.22
B	6.60	7.11
C	2.75	3.18
D	0.15	0.31
E	7.75	8.13
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

RATING	SYMBOL	SRR0	SRR1	SRR2	SRR4	SRR6	UNIT
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	V
Maximum Average Forward Current <small>T<sub>a</sub> = 90 °C</small>	I <sub>F(AV)</sub>	3.0					A
Maximum Peak Forward Surge Current, 8.3ms Single half sine wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	100					A
Maximum Peak Forward Voltage at I <sub>F</sub> = 3.0 A	V <sub>F</sub>	1.25					V
Maximum DC Reverse Current <small>T<sub>a</sub> = 25 °C</small> at Rated DC Blocking Voltage <small>T<sub>a</sub> = 100 °C</small>	I <sub>R</sub>	10					μA
	I <sub>R(H)</sub>	150					μA
Maximum Reverse Recovery Time ( Note 1 )	T <sub>rr</sub>	150					ns
Typical Junction Capacitance ( Note 2 )	C <sub>J</sub>	28					pf
Junction Temperature Range	T <sub>J</sub>	- 65 to + 150					°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 150					°C

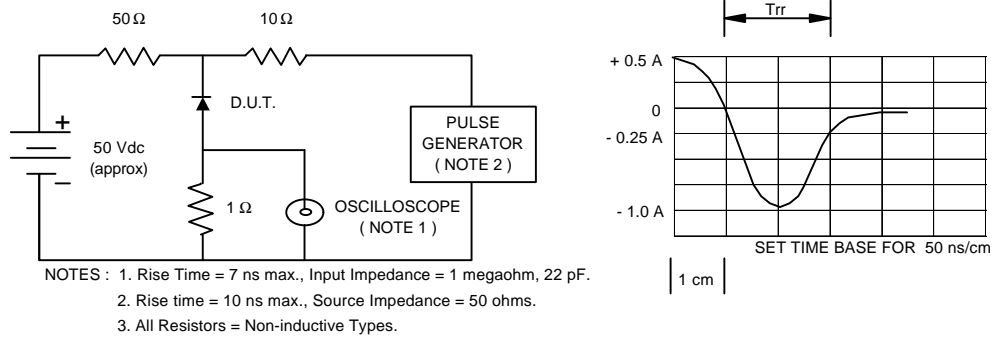
#### Notes :

- ( 1 ) Reverse Recovery Test Conditions : I<sub>F</sub> = 0.5 A, I<sub>R</sub> = 1.0 A, I<sub>rr</sub> = 0.25 A.
- ( 2 ) Measured at 1.0 MHz and applied reverse voltage of 4.0 V<sub>DC</sub>

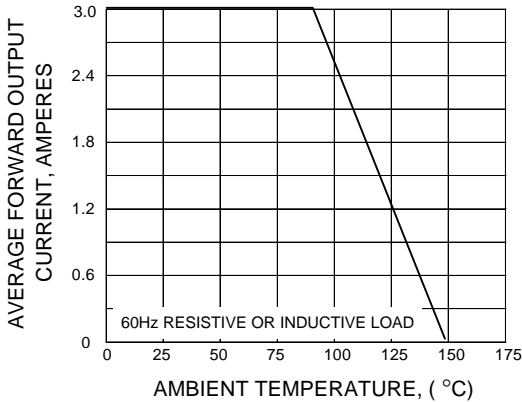


## RATING AND CHARACTERISTIC CURVES ( SRR0 - SRR6 )

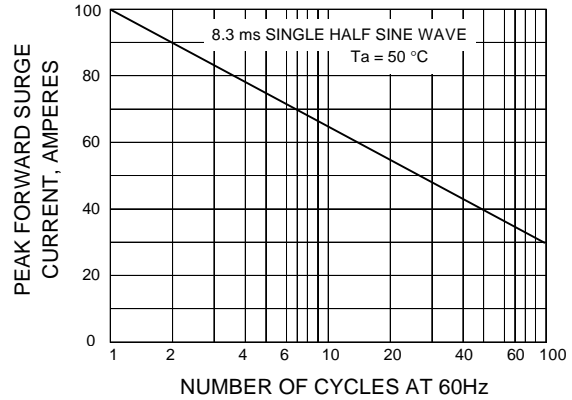
**FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**



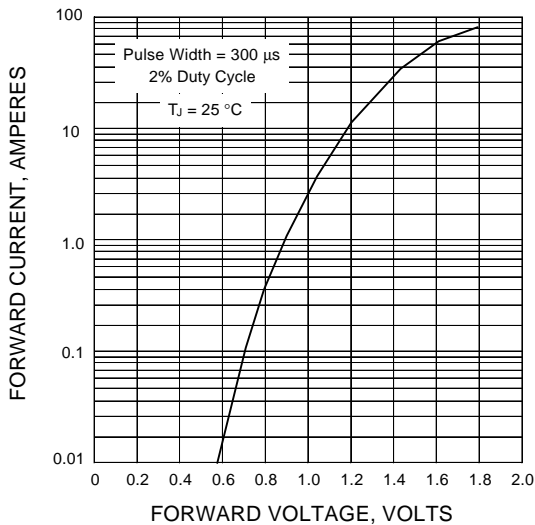
**FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.4 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.5 - TYPICAL REVERSE CHARACTERISTICS**

