

# SN3N - SN3R

**PRV : 1200 - 2000 Volts**  
**Io : 3.0 Amperes**

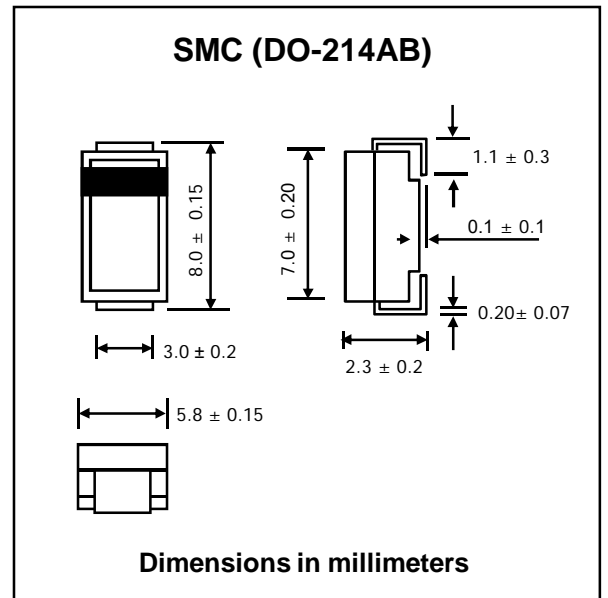
### FEATURES :

- \* High current capability
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* **Pb / RoHS Free**

### MECHANICAL DATA :

- \* Case : SMC Molded plastic
- \* Epoxy : UL94V-O rate flame retardant
- \* Lead : Lead Formed for Surface Mount
- \* Polarity : Color band denotes cathode end
- \* Mounting position : Any
- \* Weight : 0.21 gram

## SURFACE MOUNT HIGH VOLTAGE RECTIFIERS



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

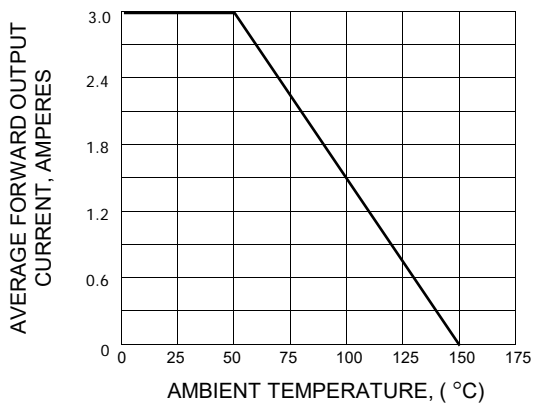
For capacitive load, derate current by 20%.

RATING	SYMBOL	SN3N	SN3O	SN3P	SN3Q	SN3R	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	1200	1400	1600	1800	2000	V
Maximum RMS Voltage	VRMS	840	980	1120	1260	1400	V
Maximum DC Blocking Voltage	VDC	1200	1400	1600	1800	2000	V
Maximum Average Forward Current Ta = 50°C	IF(AV)	3.0					A
Maximum Peak One - cycle Surge Forward Current	IFSM	100					A
Maximum Peak Forward Voltage at IF = 3.0 A	VF	2.2					V
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	10					µA
Thermal Resistance, Junction to Ambient	RθJA	75					°C/W
Thermal Resistance, Junction to Case	RθJC	10					°C/W
Junction Temperature Range	TJ	- 40 to + 150					°C
Storage Temperature Range	TSTG	- 40 to + 150					°C

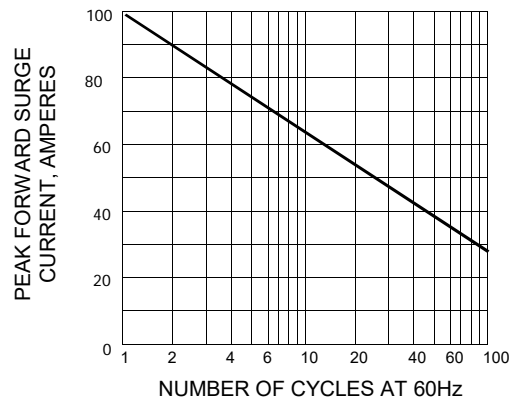


**RATING AND CHARACTERISTIC CURVES ( SN3N - SN3R )**

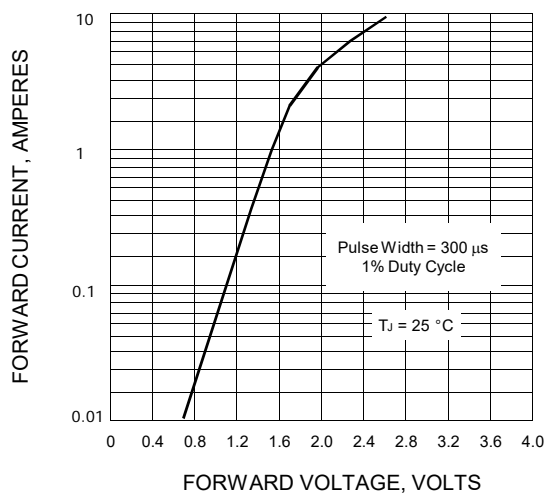
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



**FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - TYPICAL REVERSE CHARACTERISTICS**

