

SN1N - SN1R

PRV : 1200 - 2000 Volts

Io : 1.0 Ampere

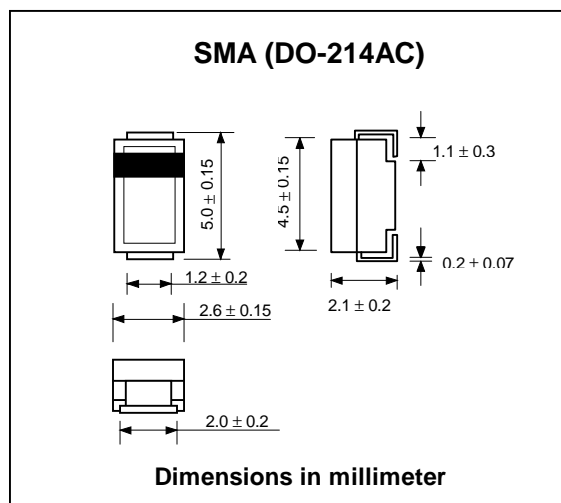
FEATURES :

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

MECHANICAL DATA :

- * Case : SMA Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.067 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	SN1N	SN1O	SN1P	SN1Q	SN1R	UNIT	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	1200	1400	1600	1800	2000	V	
Maximum RMS Voltage	V _{RMS}	840	980	1120	1260	1400	V	
Maximum DC Blocking Voltage	V _{DC}	1200	1400	1600	1800	2000	V	
Maximum Average Forward Current Ta = 75°C	I _{F(AV)}	1.0						A
Maximum Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	30						A
Maximum Peak Forward Voltage at I _F = 1.0 A	V _F	2.2						V
Maximum DC Reverse Current Ta = 25°C at Rated DC Blocking Voltage Ta = 100°C	I _R	5.0						μA
	I _{R(H)}	100						μA
Typical Junction Capacitance (Note 1)	C _j	36						pF
Junction Temperature Range	T _J	- 40 to + 150						°C
Storage Temperature Range	T _{STG}	- 40 to + 150						°C

Notes :

(1) Measured at 1.0 MHz and applied reverse voltage of 4.0Vbc

RATING AND CHARACTERISTIC CURVES (SN1N - SN1R)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

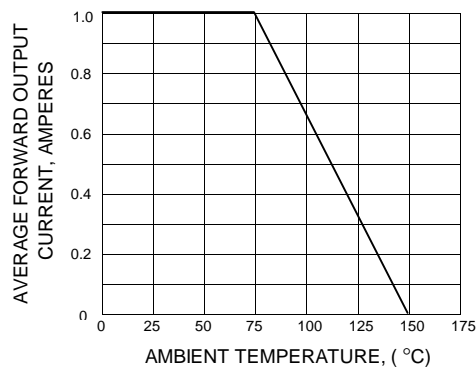


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

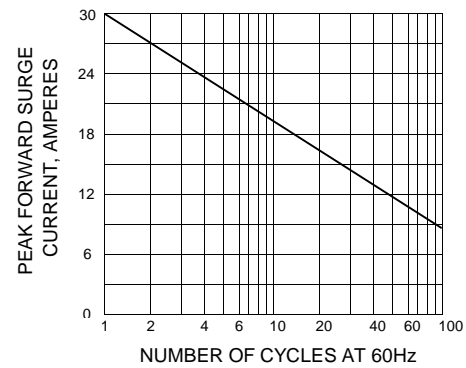


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

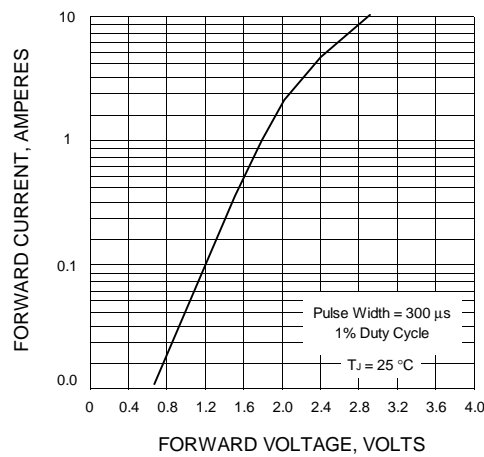


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

