

SN1N - SN1R

SURFACE MOUNT HIGH VOLTAGE RECTIFIERS

PRV : 1200 - 2000 Volts

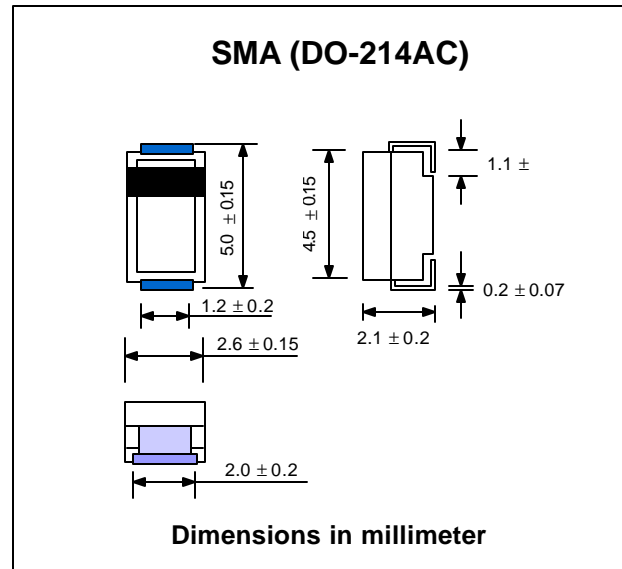
Io : 1.0 Ampere

FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop

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 : 0.06 gram



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	UNITS
Maximum Repetitive Peak Reverse Voltage	VRRM	1200	1400	1600	1800	2000	Volts
Maximum RMS Voltage	VRMS	840	980	1120	1260	1400	Volts
Maximum DC Blocking Voltage	VDC	1200	1400	1600	1800	2000	Volts
Maximum Average Forward Current Ta = 75°C	IF(AV)	1.0					Amp.
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	IFSM	30					Amps.
Maximum Peak Forward Voltage at IF = 1.0 Amp.	VF	2.2					Volts
Maximum DC Reverse Current Ta = 25°C at Rated DC Blocking Voltage Ta = 100°C	IR	5.0					μA
	IR(H)	100					μA
Typical Junction Capacitance (Note 1)	Cj	36					pF
Junction Temperature Range	TJ	- 40 to + 150					°C
Storage Temperature Range	TSTG	- 40 to + 150					°C

Notes :

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



Certificate Number: QH0561



Certificate Number: E17276

RATING AND CHARACTERISTIC CURVES (SN1N - SN1R)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

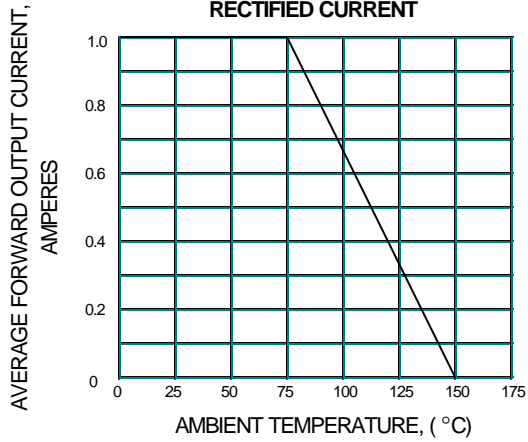


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

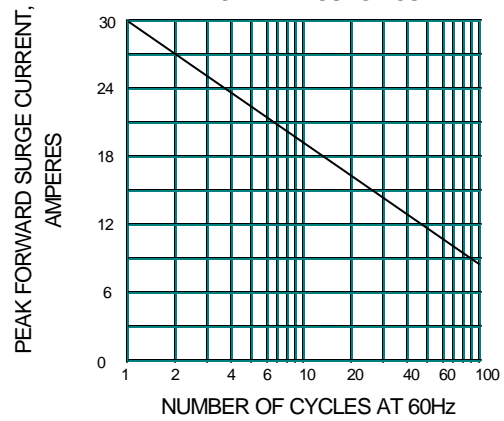


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

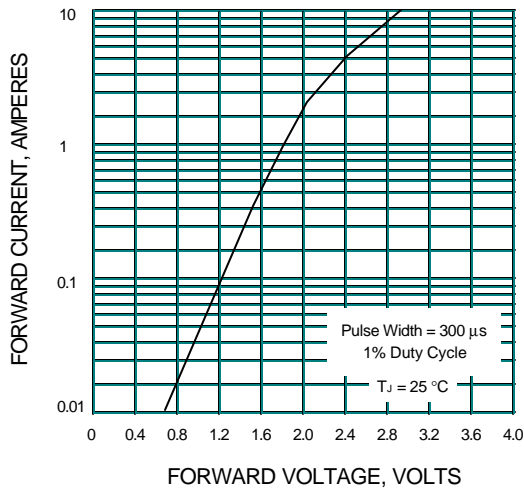


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

