

SN1A - SN13

SURFACE MOUNT RECTIFIERS

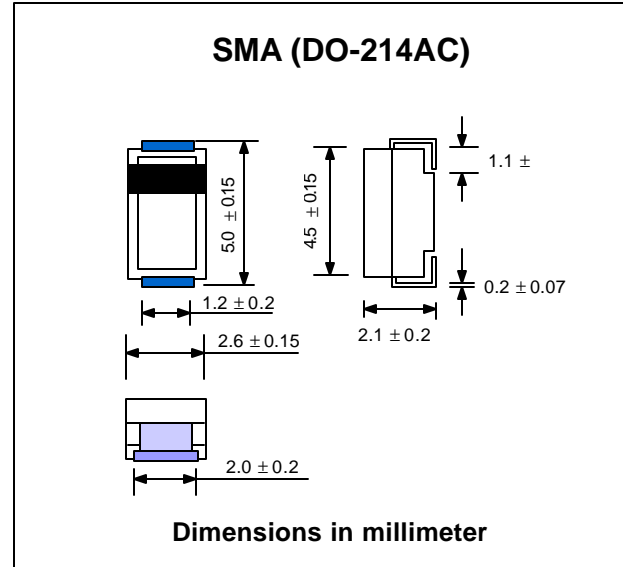
PRV : 50 - 1300 Volts
Io : 1.0 Ampere

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 : 0.064 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	SN1A	SN1B	SN1D	SN1G	SN1J	SN1K	SN1M	SN13	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	1300	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	1000	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	1300	Volts
Maximum Average Forward Current $T_a = 75^\circ C$	I_F	1.0								Amp.
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	50								Amps.
Maximum Forward Voltage at $I_F = 1.0$ Amp.	V_F	1.0								Volts
Maximum DC Reverse Current $T_a = 25^\circ C$ at rated DC Blocking Voltage $T_a = 100^\circ C$	I_R	2.0								μA
	$I_{R(H)}$	50								μA
Typical Junction Capacitance (Note1)	C_J	30								pF
Junction Temperature Range	T_J	- 65 to + 175								$^\circ C$
Storage Temperature Range	T_{STG}	- 65 to + 175								$^\circ C$

Notes :

(1) Measured at 1.0 MHz and applied reverse voltage of 4.0V_{DC}

RATING AND CHARACTERISTIC CURVES (SN1A - SN13)

