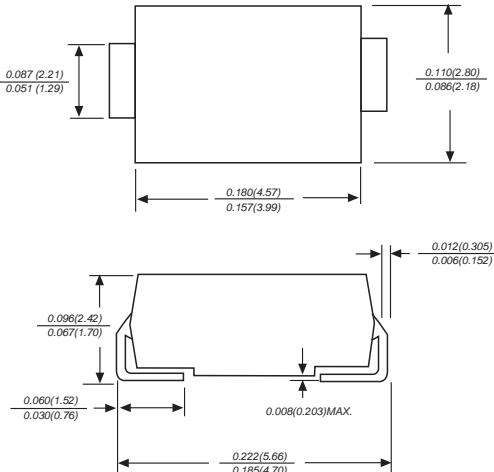


**I. General Purpose Rectifier**

**2.0A Surface Mount Silicon Rectifier  
S2AA~S2MA**

**(Package: SMA (DO-214AC))**

<p><b><u>FEATURES</u></b></p> <ul style="list-style-type: none"> <li>• The plastic package carries Underwriters Laboratory Flammability Classification 94V-0</li> <li>• For surface mounted applications</li> <li>• Low reverse leakage</li> <li>• Built-in strain relief, ideal for automated placement</li> <li>• High forward surge current capability</li> <li>• High temperature soldering guaranteed : 250 /10 seconds at terminals</li> </ul> <p><b><u>MECHANICAL DATA</u></b></p> <ul style="list-style-type: none"> <li>• Case : JEDEC DO-214AC molded plastic body</li> <li>• Terminals : Solder plated, solderable per MIL-STD-750, Method 2026</li> <li>• Polarity : Color band denotes cathode end</li> <li>• Mounting Position : Any</li> <li>• Weight : 0.058 grams</li> </ul>	 <p style="text-align: center;">Case: SMA Dimensions in inches and (millimeters)</p>
---	--

**Ratings & Electrical Characteristics**

Ratings at 25 ambient temperature unless otherwise specified.  
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Characteristic	Symbol	S2AA	S2BA	S2DA	S2GA	S2JA	S2KA	S2MA	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current at $T_L = 110$	$I_O$	2.0							Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50.0							Amps
Maximum instantaneous forward voltage at 2.0 A	$V_F$	1.1							Volts
Maximum DC reverse current $T_a = 25$ at rated DC blocking voltage $T_a = 100$	$I_R$	5.0 50.0							$\mu A$
Typical junction capacitance (Note 1)	$C_j$	30.0							pF
Typical thermal resistance (Note 2)	Rth-JA	50.0							/ W
Operating junction and storage temperature range	$T_j, T_{stg}$	-65 to +175							

- Notes:
1. Measured at 1MHz and applied reverse voltage of 4.0 V D.C.
  2. P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas

# Ratings and Characteristic Curves of S2AA~S2MA

