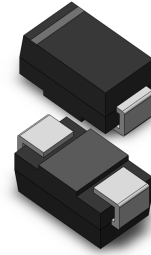


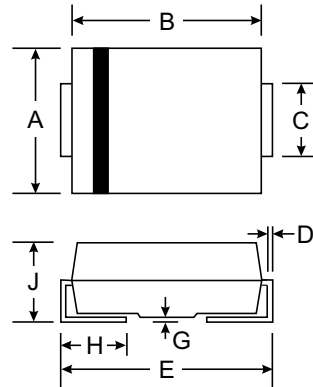
### Features

- Surface Mounting Device
- Extremely Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability



### Mechanical Data

- Case: SMA/DO-214AC, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)



SMA(DO-214AC)		
Dim	Min	Max
A	2.29	2.92
B	4.00	4.60
C	1.27	1.63
D	0.15	0.31
E	4.80	5.59
G	0.10	0.20
H	0.76	1.52
J	2.01	2.62
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	NSH03A10	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	V
Average Rectified Output Current 50Hz Half Sine Wave Resistive Load	I <sub>o</sub>	1.5 3.0	A
RMS Forward Current	I <sub>F(RMS)</sub>	4.71	A
Surge Forward Current 50Hz Half Sine Wave, 1 cycle Non-repetitive	I <sub>FSM</sub>	60	A
Operating Junction Temperature Range	T <sub>jw</sub>	-40 to +150	°C
Storage Temperature Range	T <sub>stg</sub>	-40 to +150	°C

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I <sub>RM</sub>	T <sub>j</sub> = 25 °C, V <sub>RM</sub> = V <sub>RRM</sub>	-	-	1	mA
Peak Forward Voltage	V <sub>FM</sub>	T <sub>j</sub> = 25 °C, I <sub>FM</sub> = 3.0A	-	-	0.85	V
Thermal Resistance	Junction to Ambient	R <sub>th(j-a)</sub>	-	-	89	C°/W
	Junction to Lead	R <sub>th(j-l)</sub>	-	-	13	