

VOLTAGE RANGE: 30V
CURRENT: 1.0 A

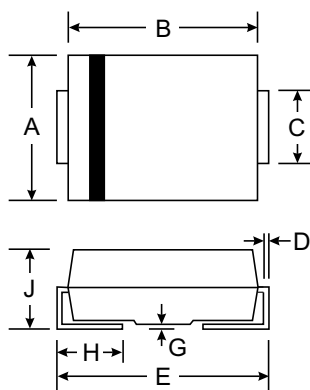
Features

- Miniature Size, Surface Mount Device
- Extremely Low Forward Voltage Drop
- High Surge Capability
- Low Power Loss, High Efficiency
- Packaged in 12mm Tape and Reel
- Not Rolling During Assembly



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 @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Limits	Unit
Repetitive Peak Reverse Voltage	VRRM	30	V
Direct Forward Current	I_{FO}	1.0 1.0	A
Surge Forward Current 50Hz Half Sine Wave, 1 cycle, Non-repetitive	IFSM	25	A
Operating Junction Temperature Range	T_{jw}	-40 to +150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40 to +150	$^\circ\text{C}$

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Peak Reverse Current	IRM	-	-	2	μA
Peak Forward Voltage	VFM	-	-	0.39	V
Thermal Resistance (Junction to Ambient)	$R_{th(j-a)}$	-	-	157	$^\circ\text{C} / \text{W}$
Glass Epoxy Substrate Mounted Alumina Substrate Mounted		-	-	108	