

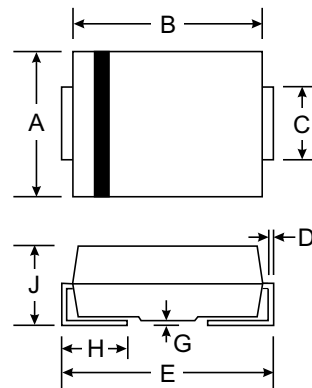
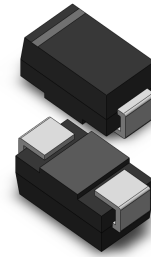
VOLTAGE RANGE: 100V
CURRENT: 1.0 A

Features

- Miniature Size, Surface Mount Device
- High Surge Capability
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- Packaged in 12mm Tape and Reel

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

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

Characteristic	Symbol	EC10DS1	Unit
Repetitive Peak Reverse Voltage	VRRM	100	V
Non-repetitive Peak Reverse Voltage	VRSM	250	V
Average Rectified Forward Current 50Hz Half Sine Wave Resistive Load $T_A=25^\circ\text{C}^{*1}$ $T_A=25^\circ\text{C}^{*2}$	IO	1.0	A
R.M.S. Forward Current	IF(RMS)	1.57	A
Surge Forward Current 50Hz Half Sine Wave, 1 cycle, Non-repetitive	IFSM	25	A
Operating Junction Temperature Range	Tjw	-40 to +150	$^\circ\text{C}$
Storage Temperature Range		-40 to +150	$^\circ\text{C}$

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Peak Reverse Current	IRM	-	-	10	μA
Peak Forward Voltage	VFM	-	-	1.1	V
Thermal Resistance	Rth(j-a)	-	-	157	C /W
		-	-	108	