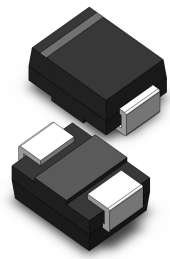
EC31QS03L

SURFACE MOUNT SCHOTTKY BARRIER DIODES

VOLTAGE RANGE: 30V
CURRENT: 3.0 A

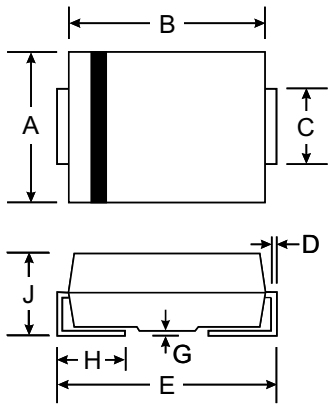


Features

- 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: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)



SMB(DO-214AA)		
Dim	**Min**	**Max**
A	3.30	3.94
B	4.06	4.70
C	1.91	2.21
D	0.15	0.31
E	5.00	5.59
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Limits	Unit
RepetitivePeak Reverse Voltage	VRRM	30	V
Average Rectified Output Current 50Hz Half Sine Wave Resistive Load	Io	1.3 3.0	A
R.M.S.Forward Current	IF(RMS)	4.71	A
Surge Forward Current 50Hz Half Sine Wave,Icycle,Non-repetitive	IFSM	60	A
Operating Junction Temperature Range	Tjw	-40 to +150	°C
Storage Temperature Range	Tstg	-40 to +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic		Symbol	Min	Typ	Max	Unit
Peak Reverse Current		IRM	-	-	3	mA
Peak Forward Voltage		VFM	-	-	0.45	V
Thermal Resistance	Junction to Ambient Alumina Substrate Mounted *1	Rth(j-a)	-	-	108	°C /W
	Junction to Lead		-	-	23	