

VOLTAGE RANGE: 45V
CURRENT: 3A

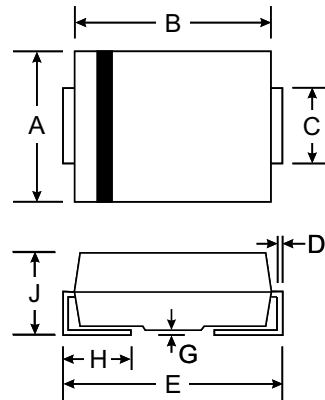
Features

- For Surface Mounted Applications
- High Temperature Metallurgically Bonded Contacts
- Plastic Material - UL Flammability Classification 94V-0
- High Reliability
- High Current Capability and Low VF
Submersible Temperature of 265°C for 10 Seconds in Solder Bath



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.)



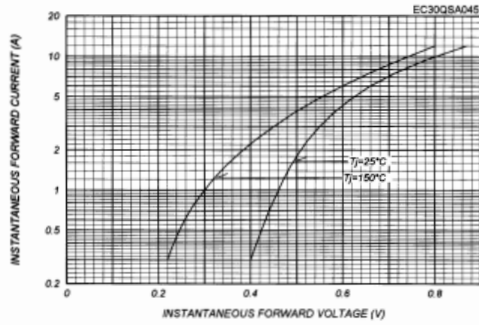
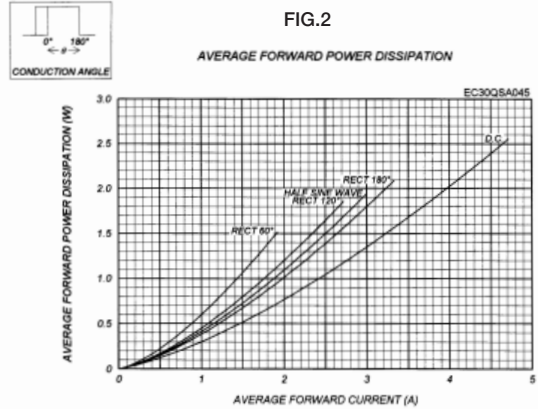
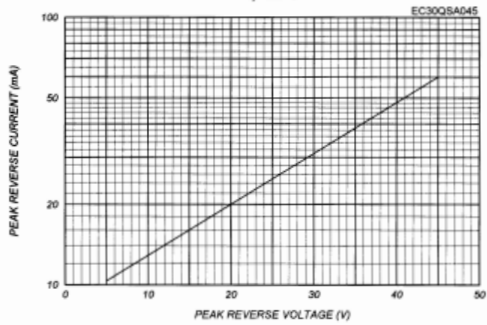
SMB(DO-214AA)		
Dim	Min	Max
A	3.30	3.94
B	4.06	4.70
C	1.91	2.21
D	0.15	0.31
E	5.00	5.59
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		

Maximum Ratings @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Limits	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	45	V
Average Rectified Forward Current 50Hz Half Sine Wave Resistive Load <small>T_a=25°C * V_{RM}=20V T_l=102°C V_{RM}=20V</small>	I _O	1.9 3.0	A A
R.M.S.Forward Current	I _{F(RMS)}	4.71	A
Surge Forward Current 50Hz Half Sine Wave, 1cycle, Non-repetitive	I _{FSM}	60	A
Operating Junction Temperature Range	T _{jw}	-40 ~ +150	°C
Storage Temperature Range	T _{stg}	-40 ~ +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min.	Typ.	Max.	Unit
Peak Reverse Current T _j =25°C, V _{RM} =45V	I _{RM}	—	—	300	μA
Peak Forward Voltage T _j =25°C, I _{FM} =3A	V _{FM}	—	—	0.55	V
Thermal Resistance	Junction to Ambient Alumina Substrate Mounted *	—	—	108	°C/W
	Junction to Lead	—	—	23	°C/W

FIG.1
FORWARD CURRENT VS. VOLTAGE

FIG.2
AVERAGE FORWARD POWER DISSIPATION

FIG.3
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE
 $T_j=150^\circ\text{C}$

FIG.4
AVERAGE REVERSE POWER DISSIPATION
