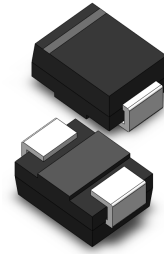


VOLTAGE RANGE: 65V
CURRENT: 2A

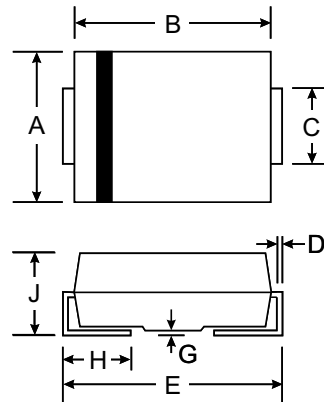


Features

- 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}	65	V
Average Rectified Forward Current 50Hz Half Sine Wave Resistive Load	I _O	1.5 2.0	A A
R.M.S. Forward Current	I _{F(RMS)}	3.14	A
Surge Forward Current 50Hz Half Sine Wave, 1 cycle, Non-repetitive	I _{FSM}	50	A
Operating Junction Temperature Range	T _{iw}	-40 ~ +150	°C
Storage Temperature Range	T _{stg}	-40 ~ +150	°C

Electrical Characteristics @ T_A = 25°C unless otherwise specified

	Symbol	Min.	Typ.	Max.	Unit
Peak Reverse Current T _j =25°C, V _{RM} =65V	I _{RM}	—	—	200	μA
Peak Forward Voltage T _j =25°C, I _{FM} =2A	V _{FM}	—	—	0.61	V
Thermal Resistance	Junction to Ambient	—	—	108	°C/W
	Junction to Lead	—	—	23	°C/W



FIG.1

FORWARD CURRENT VS. VOLTAGE

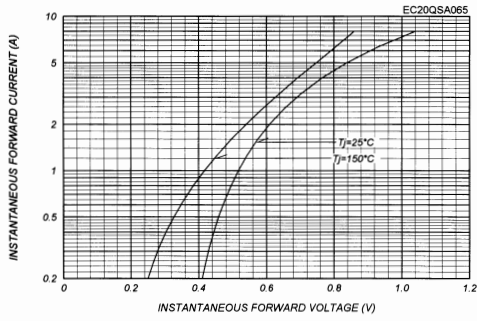


FIG.2

AVERAGE FORWARD POWER DISSIPATION

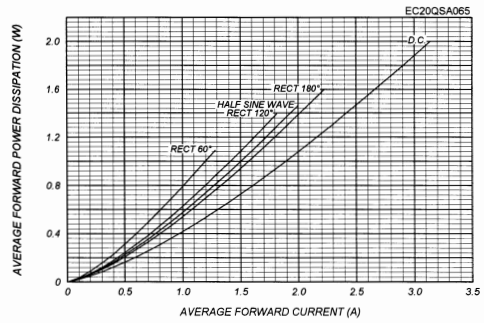
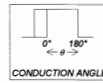


FIG.3

PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

$T_j=150^\circ\text{C}$

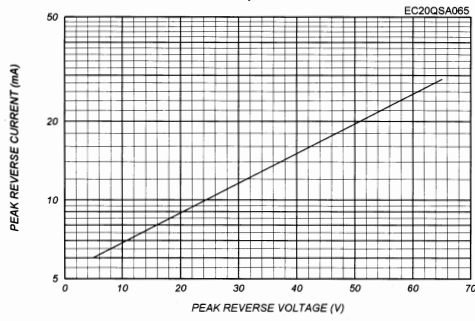


FIG.4

AVERAGE REVERSE POWER DISSIPATION

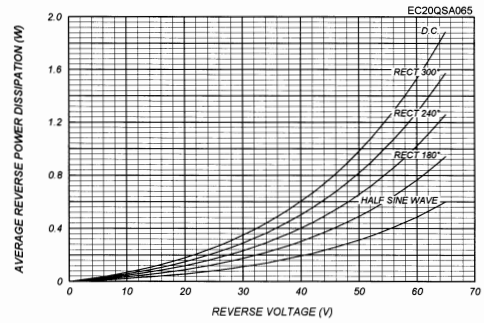


FIG.5

AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

$V_{\text{REV}}=30\text{V}$

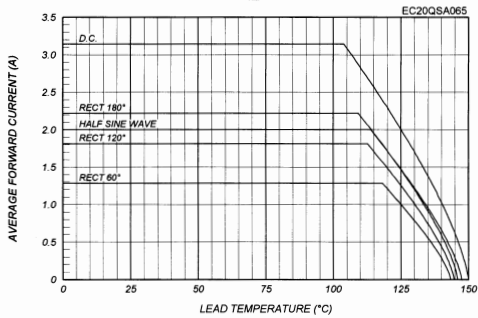
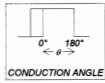


FIG.6

AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Alumina Substrated mounted (Soldering Land $2 \times 2\text{mm}$), $V_{\text{REV}}=30\text{V}$

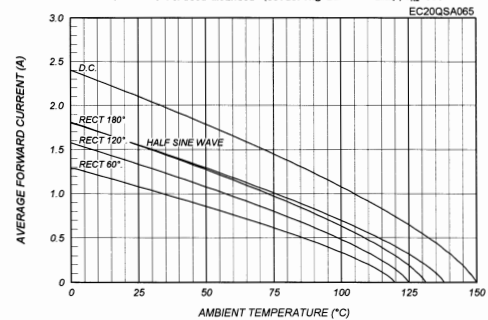
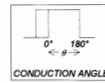


FIG.7

SURGE CURRENT RATINGS

$f=50\text{Hz}$, Half Sine Wave, Non-Repetitive, No Load

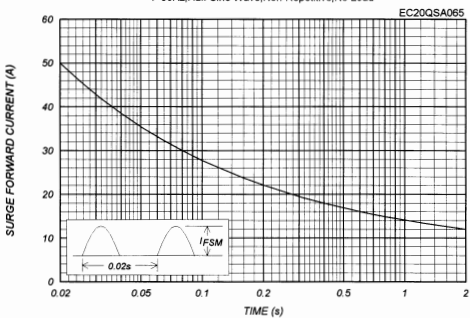


FIG.8

JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

$T_j=25^\circ\text{C}$, $V_m=20\text{mV}$, $f=100\text{kHz}$, Typical Value

