

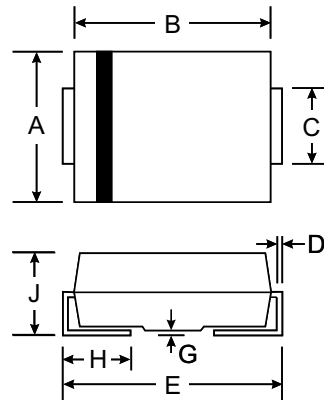
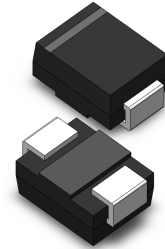
VOLTAGE RANGE: 35V
CURRENT: 3A

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}	35	V
Average Rectified Forward Current 50Hz Half Sine Wave Resistive Load	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, 1 cycle, 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

	Symbol	Min.	Typ.	Max.	Unit
Peak Reverse Current T _j =25°C, V _{RM} =35V	I _{RM}	—	—	2	mA
Peak Forward Voltage T _j =25°C, I _F =3A	V _{FM}	—	—	0.47	V
Thermal Resistance	Junction to Ambient	R _{th(j-a)}	—	108	°C/W
	Junction to Lead	R _{th(j-l)}	—	23	°C/W



FIG.1

FORWARD CURRENT VS. VOLTAGE

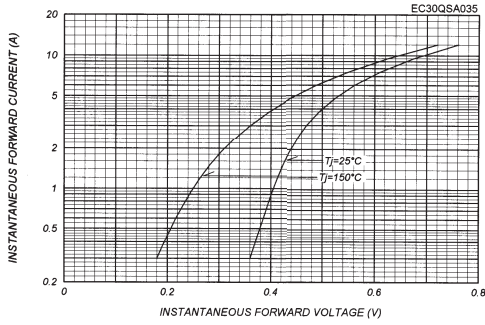


FIG.2

AVERAGE FORWARD POWER DISSIPATION

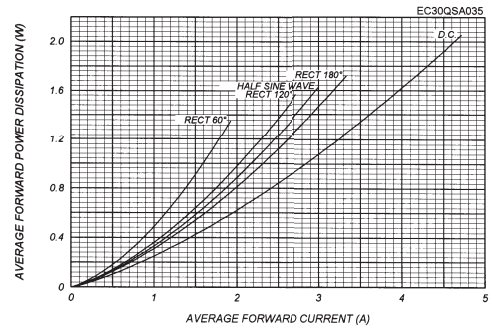
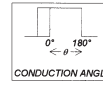


FIG.3

PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

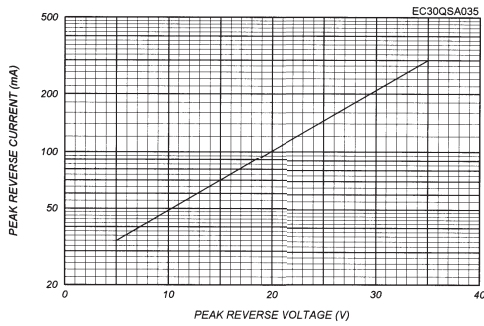


FIG.4

AVERAGE REVERSE POWER DISSIPATION

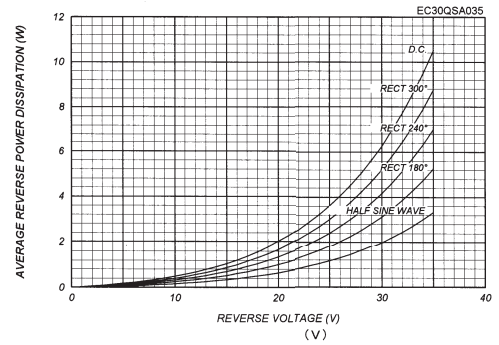
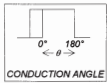


FIG.5

AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE



Alumina Substrate Mounted (Soldering Land=2×2mm) V_{RM}=15V

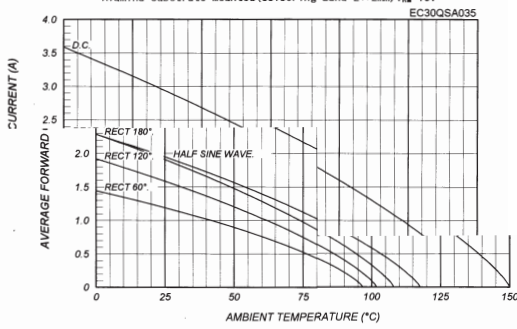


FIG.6

AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

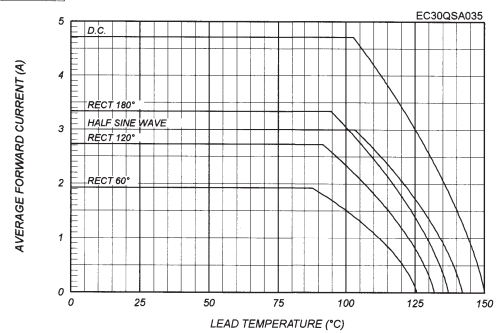
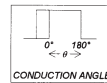


FIG.7

SURGE CURRENT RATINGS

f=50Hz, Half Sine Wave, Non-Repetitive, No Load

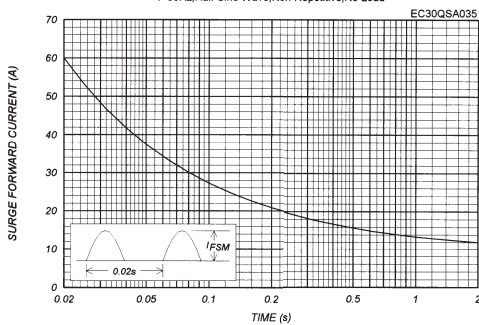


FIG.8

JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

T_J=25°C, V_m=20mV_{SM5}, f=100kHz, Typical Value

