TWGMC

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode

DO-214AA/SMB

Unipolar
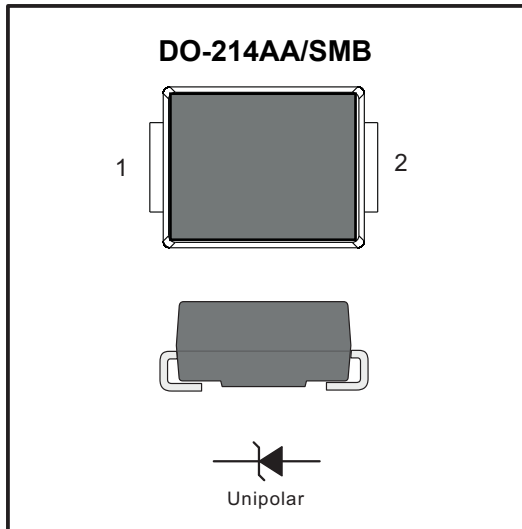
FEATURES

◆ For surface mounted applications

◆ Low profile package

◆ Glass Passivated Chip Junction

◆ Easy to pick and place

◆ Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

◆ Case: SMB

◆ Terminals: Solderable per MIL-STD-750, Method 2026

◆ Approx. Weight: 0.09g / 0.003oz

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

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

Parameter	Symbols	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	60							A
Maximum Instantaneous Forward Voltage at 2 A	V_F	1.1							V
Maximum DC Reverse Current $T_a = 25$ °C at Rated DC Blocking Voltage $T_a = 125$ °C	I_R	5 100							µA
Typical Junction Capacitance [1]	C_j	25							pF
Typical Thermal Resistance [2]	$R_{\theta JA}$ $R_{\theta JC}$	60 20							°C/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150							°C

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

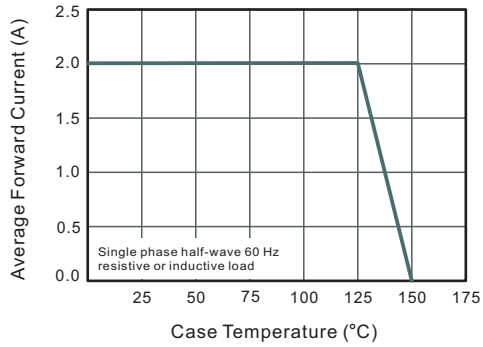## Typical Characterisitics

Fig.1 Forward Current Derating Curve

Average Forward Current (A) vs Case Temperature (°C)

Single phase half-wave 60 Hz resistive or inductive load

Fig.2 Typical Instaneous Reverse Characteristics

Instaneous Reverse Current (µA) vs Instaneous Reverse Voltage (V)

T_J=150°C
T_J=125°C
T_J=100°C
T_J=75°C
T_J=25°C
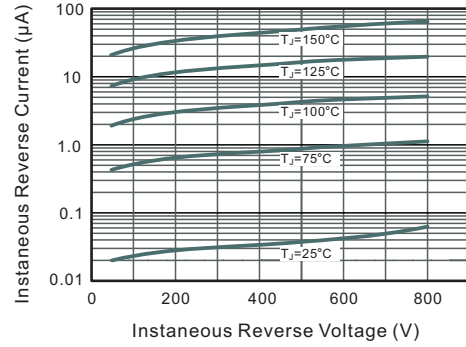
Fig.3 Typical Forward Characteristic

Instaneous Forward Current (A) vs Instaneous Forward Voltage (V)

T_J=25°C

Fig.4 Typical Junction Capacitance

Junction Capacitance (pF) vs Reverse Voltage (V)

T_J=25°C
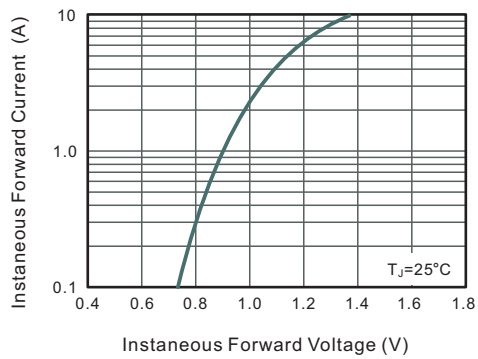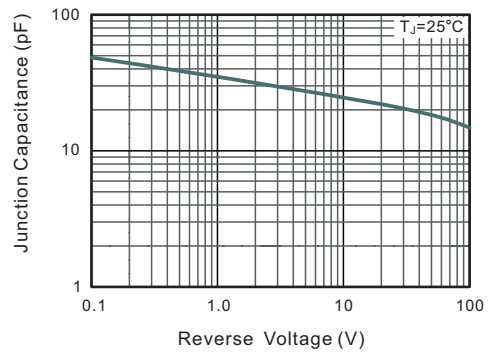
Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

Peak Forward Surage Current (A) vs Number of Cycles

8.3 ms Single Half Sine Wave (JEDEC Method)

PACKAGE OUTLINE
Plastic surface mounted package; 2 leads

SMB
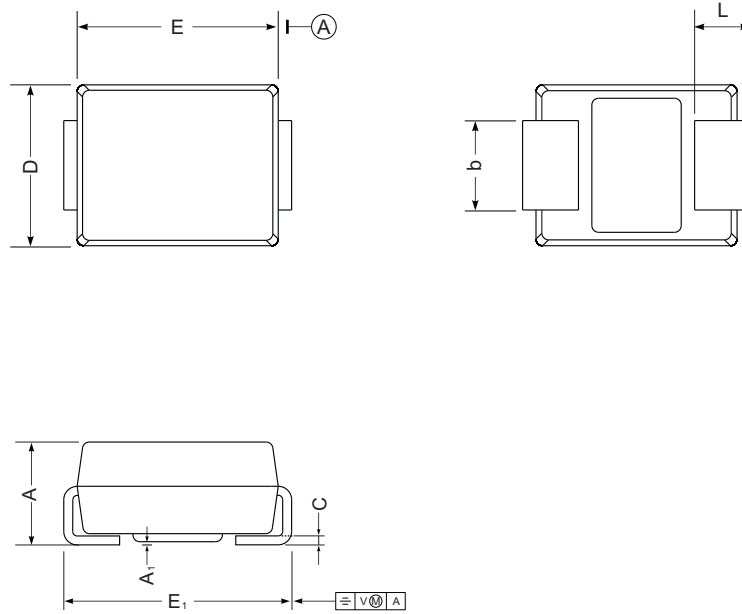
SMB mechanical data

UNIT		A	E	D	E₁	A₁	L	C	b
mm	max	2.44	4.70	3.94	5.59	0.20	1.5	0.305	2.2
	min	2.13	4.06	3.3	5.08	0.05	0.8	0.152	1.9
mil	max	96	185	155	220	7.9	59	12	87
	min	84	160	130	200	2.0	32	6	75

The recommended mounting pad size
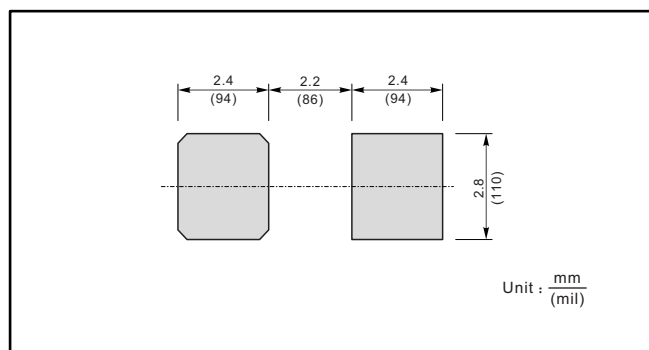
单击下面可查看定价，库存，交付和生命周期等信息

>>TWGMC(台湾迪嘉)