SS43B

SURFACE MOUNT
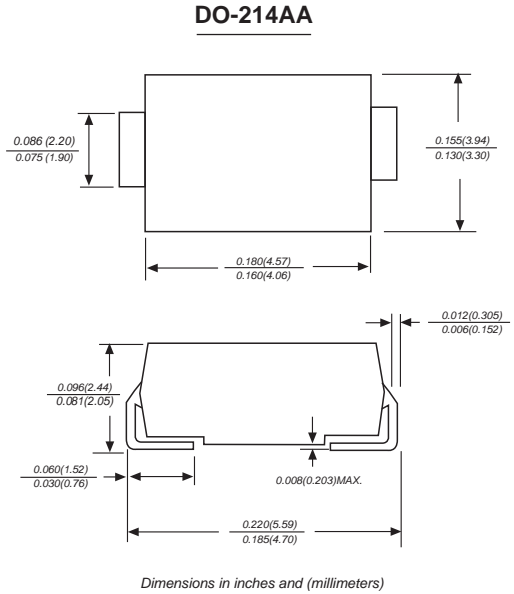## SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE **- 30** Volts
FORWARD CURRENT **- 4.0** Amperes

FEATURES

● Metal-Semiconductor junction with gard ring

● Epitaxial construction

● Low forward voltage drop

● High current capability

● The plastic material carries UL recognition 94V-0

● For use in low vlotage, high frequency inverters,
   free wheeling, and polarity protection applications

MECHANICAL DATA

●Case： Molded Plastic

●Polarity:Color band denotes cathode

●Weight: 0.09 grams

DO-214AA

0.086 (2.20) / 0.075 (1.90)

0.155(3.94) / 0.130(3.30)

0.180(4.57) / 0.160(4.06)

0.012(0.305) / 0.006(0.152)

0.096(2.44) / 0.081(2.05)

0.060(1.52) / 0.030(0.76)

0.008(0.203)MAX.

0.220(5.59) / 0.185(4.70)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

CHARACTERISTICS	SYMBOL	SS43B	UNIT
Maximum Recurrent Peak Reverse Voltage	V$_{RRM}$	30	V
Maximum RMS Voltage	V$_{RMS}$	21	V
Maximum DC Blocking Voltage	V$_{DC}$	30	V
Maximum Average Forward Rectified Current 0.375″ （9.5mm) Lead Lengths	I$_{(AV)}$	4.0	A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I$_{FSM}$	150	A
Maximum Forward Voltage at 4.0A DC	V$_F$	0.55	V
Maximum DC Reverse Current @T$_J$=25℃ at Rated DC Bolcking Voltage @T$_J$=100℃	I$_R$	1.0 50	mA
Typical Junction Capacitance (Note1)	C$_J$	500	pF
Typical Thermal Resistance (Note2)	R$_{θJA}$	15	℃/W
Operating Temperature Range	T$_J$	-55 to +150	℃
Storage Temperature Range	T$_{STG}$	-55 to +150	℃

NOTES: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

2.Thermal resistance junction to ambient,

RATING AND CHARACTERTIC CURVES   SS43B

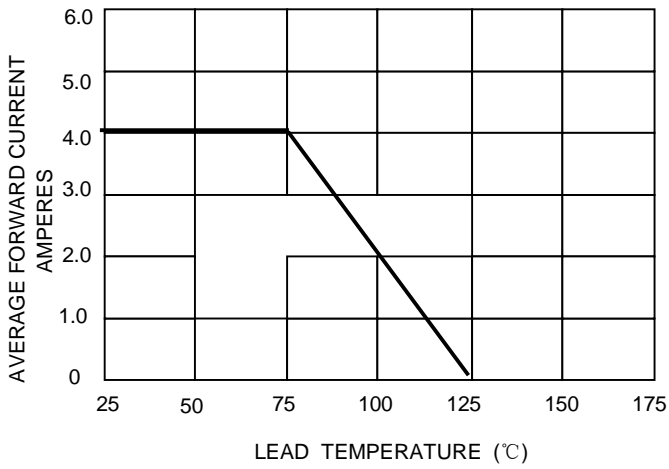FIG. 1 – FORWARD CURRENT DERATING CURVE
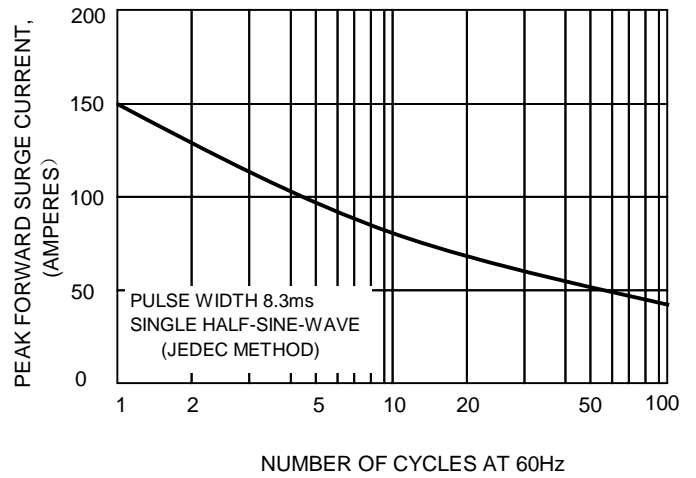
FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT
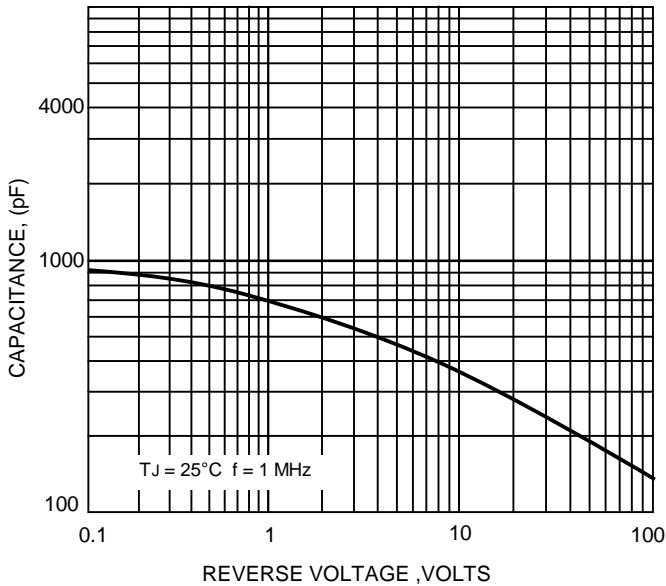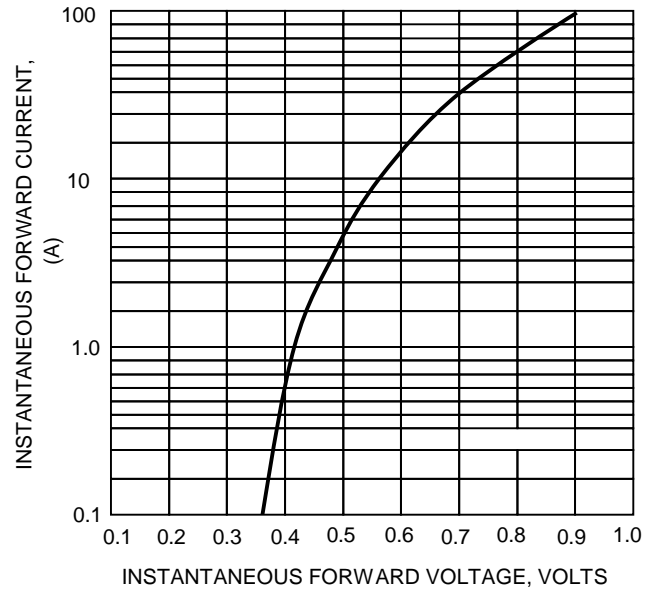
FIG.3 – TYPICAL JUNCTION CAPACITANCE

FIG.4-TYPICAL FORWARD CHARACTERISTICS

FIG.2-TYPICAL REVER CHARACTERISTICS