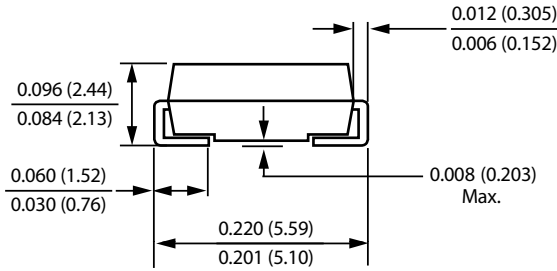
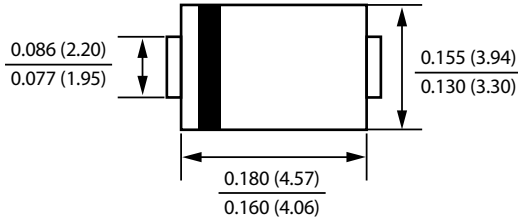


Schottky Barrier Rectifiers Low V_F Series



DO-214AA(SMB)

Dimensions in inches and (millimeters)

Ordering Information	
Part Number	Remark
SSXSB	General
SSXSB-H	Halogen Free
SSXSB-Q	Automotive

PRIMARY CHARACTERISTICS	
I_F	3A
V_{RRM}	20~40V
I_{FSM}	80A
V_F	0.45
T_J max	75°C

Features

- Low profile package
- Ideal for automated placement
- Guard Ring for over voltage protection
- Low forward voltage drop
- Component in accordance to RoHS 2002/95/EC
- AEC-Q101 qualified

Mechanical Data

- Case: DO-214AA (SMB)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.095 grams (approximate)

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	SS32SB	SS34SB	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	V
Maximum RMS voltage	V_{RMS}	14	28	V
Maximum DC blocking voltage	V_{DC}	20	40	V
Maximum average forward rectified current	I_F	3.0		A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	80.0		A
Maximum Instantaneous Forward Voltage $I_F=3A$ @ 25°C	V_F	0.45		V
Maximum DC Reverse Current @ $T_c=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_c=75^\circ\text{C}$	I_R	1.5 70		mA
Typical Thermal Resistance(NOTE2)	$R_{\theta JC}$	40.0		$^\circ\text{C/W}$
Typical Junction Capacitance(NOTE1)	C_j	250.0		pF
Operating Temperature Range	T_J	-25 to +75		$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +125		$^\circ\text{C}$

NOTES:

1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC
2. Device mounted on FR-4 substrate, 1"×1", 2oz, single-sided, PC boards with 0.1"×0.15" copper pad.



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FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

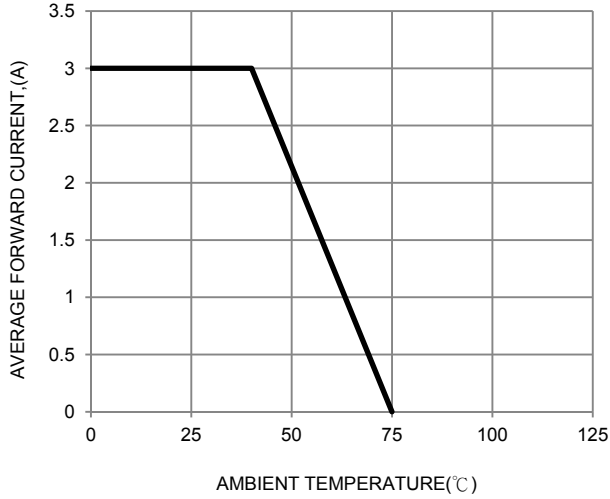


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

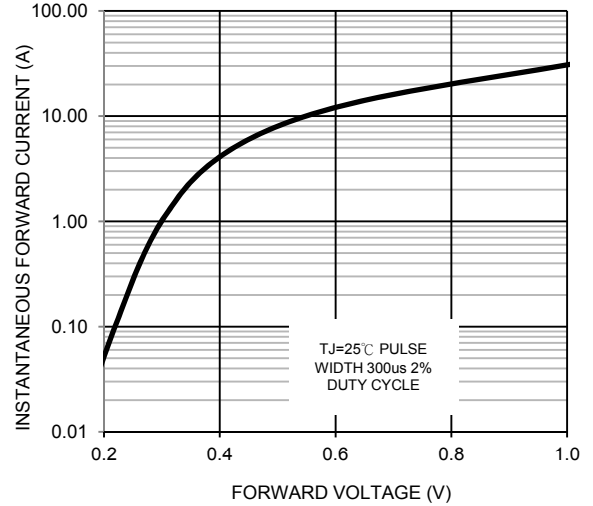


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

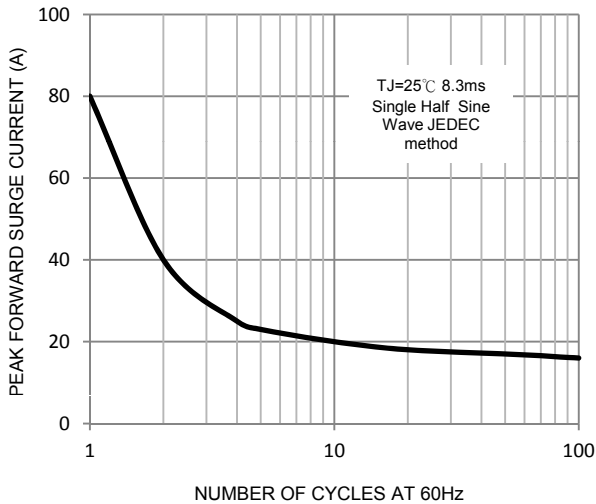


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

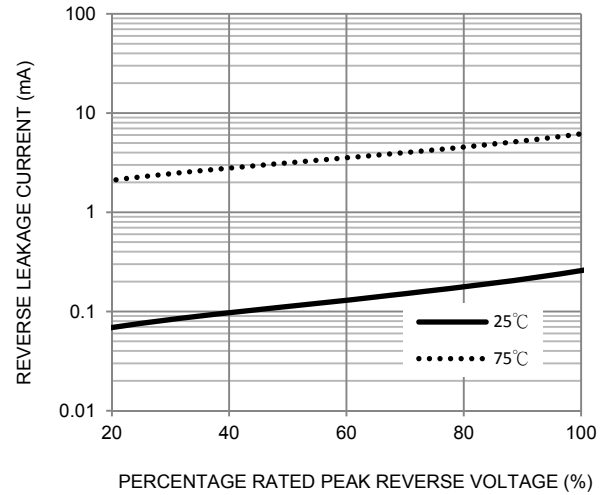


FIG. 5-TYPICAL JUNCTION CAPACITANCE

