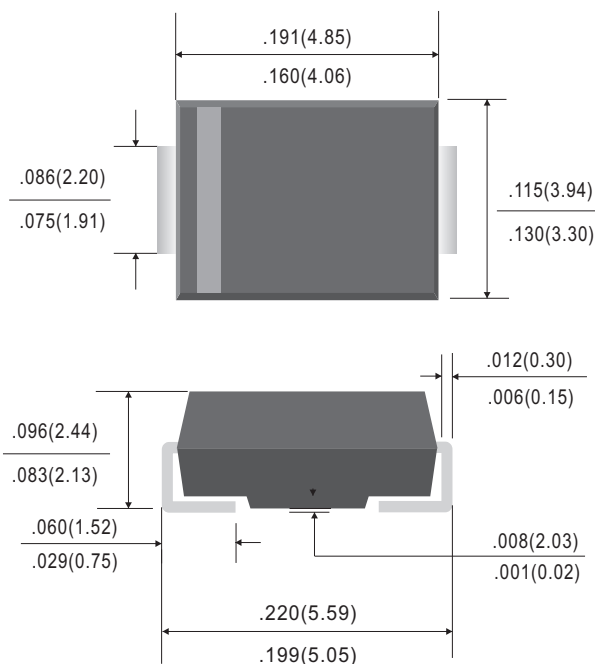


Features

- 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
- **Moisture Sensitivity Level 1**
- **Pb-Free package is available**
RoHS product for packing code suffix "G"
Halogen free product for packing code suffix "H"



DO-214AA(SMB)



Dimensions in inches and (millimeters)

Mechanical Date

- 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: 0.231 grams (approximate)

MAXIMUM RATINGS (TA=25°C unless otherwise noted)											
PARAMETER	SYMBOL	SK 82B	SK 83B	SK 84B	SK 85B	SK 86B	SK 88B	SK 810B	SK 815B	SK 820B	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current	I _F	8.0									A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	125.0									A
Maximum Instantaneous Forward Voltage IF=8A @ 25°C	V _F	0.55			0.70		0.85		0.87	0.90	V
Maximum DC Reverse Current @ Tc=25°C at Rated DC Blocking Voltage @ Tc=100°C	I _R	0.5 30					0.2 10				mA
Typical Junction Capacitance(NOTE1)	C _j	420			300		260		230	200	pF
Typical Thermal Resistance(NOTE2)	R _{θJa} R _{θJC}	80 50									°C/W
Operating Temperature Range	T _J	-55 to +125					-55 to +150				°C
Storage Temperature Range	T _{STG}	-55 to +150									°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.



WILLAS



**8.0A SCHOTTKY BARRIER RECTIFIERS -20V- 200V
SMB PACKAGE**

**SK82B
THRU
SK820B**

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

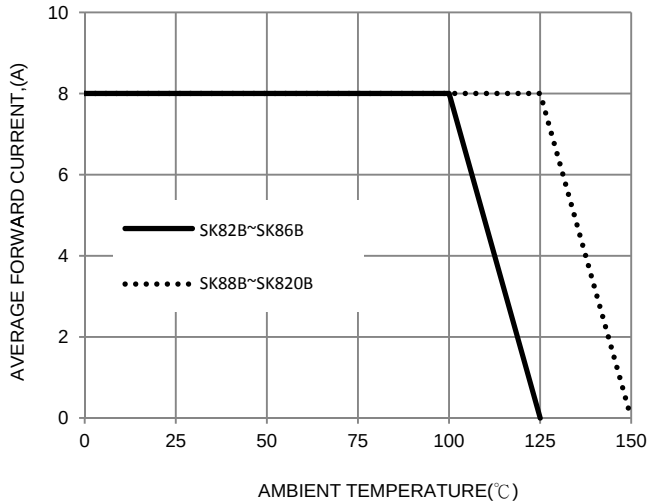


FIG. 2-TYPICAL FORWARD CHARACTERISTICS

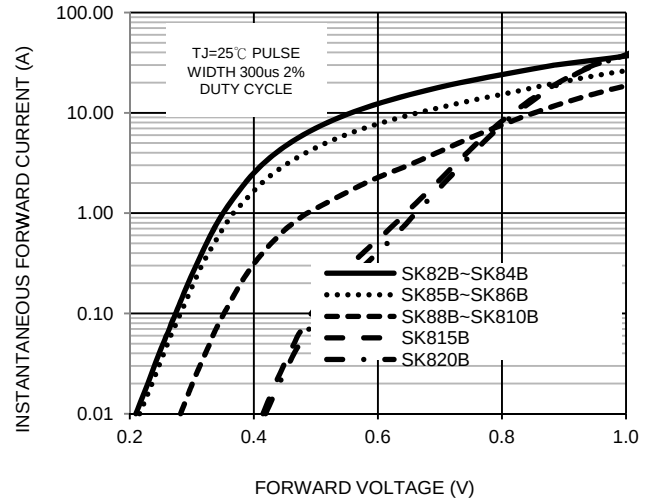


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

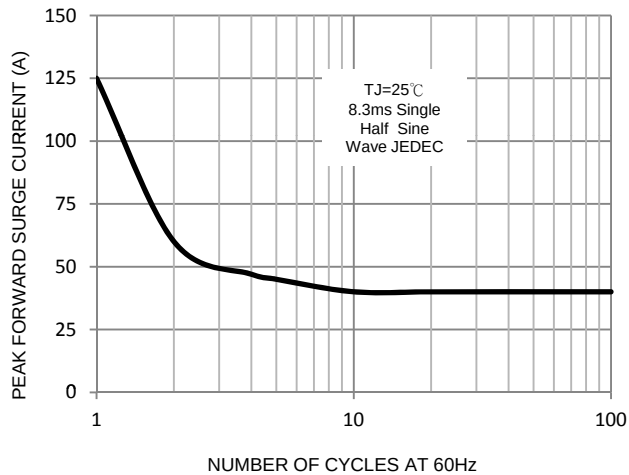


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

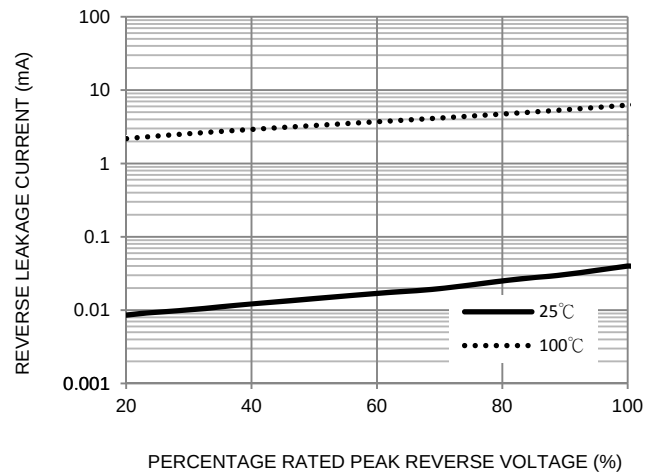


FIG. 5-TYPICAL JUNCTION CAPACITANCE

