



SK32~SK310

Surface Mount Schottky Rectifiers

Major Ratings and Characteristics

I _{F(AV)}	3.0 A
V _{RRM}	20 V to 100 V
I _{FSM}	100 A
V _F	0.55 V , 0.70 V, 0.85V
T _j max.	150 °C



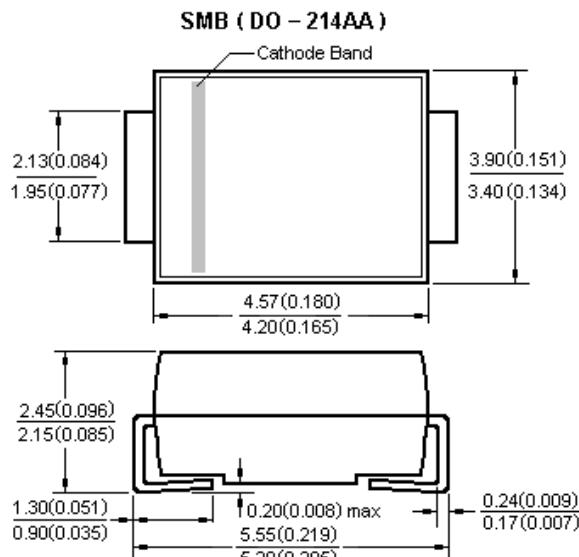
SMB (DO - 214AA)

Features

- Low profile package
- Ideal for automated placement
- Ultrafast reverse recovery time
- Low power losses, high efficiency
- Low forward voltage drop
- High surge capability
- High temperature soldering:
260 °C/10 seconds at terminals
- Component in accordance to
RoHS 2002/95/EC and WEEE 2002/96/EC

Mechanical Data

- Case: JEDEC DO-214A molded plastic body over passivated chip
- Terminals: Solder plated, solderable per J-STD-002B and JESD22-B102D
- Polarity: Laser band denotes cathode end



Dimensions in millimeters and (inches)

Maximum Ratings & Thermal Characteristics & Electrical Characteristics

(TA = 25 °C unless otherwise noted)

	Symbol	SK32	SK33	SK34	SK35	SK36	SK38	SK310	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum average forward rectified current	I _{F(AV)}						3		A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}						100		A
Maximum instantaneous forward voltage at 3.0A	V _F		0.55		0.70		0.85		V
Maximum DC reverse current T _A = 25 °C at Rated DC blocking voltage T _A = 120 °C	I _R				0.5				mA
					5				mA
Voltage rate of change (rated VR)	dv/dt				10000				V/μs
Thermal resistance from junction to ambient	R _{θ JA}				88				°C/W
Operating junction and storage temperature range	T _J , T _{STG}				– 65 to +150				°C



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

Fig.1 Forward Current Derating Curve

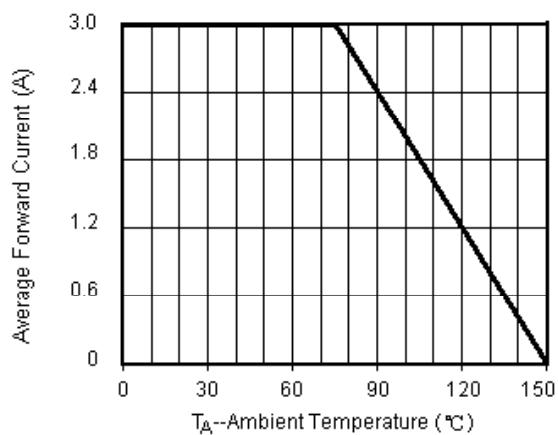


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

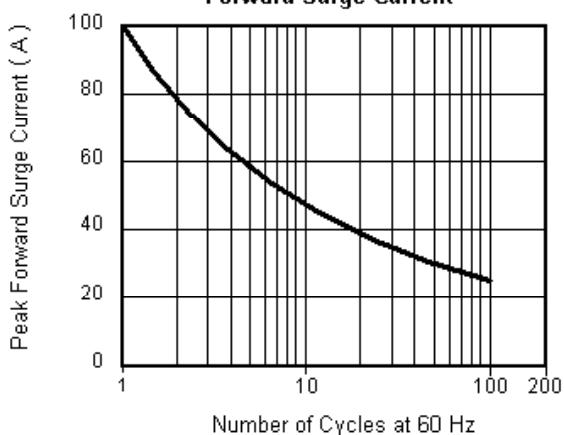


Fig.3 Typical Instantaneous Forward Characteristics

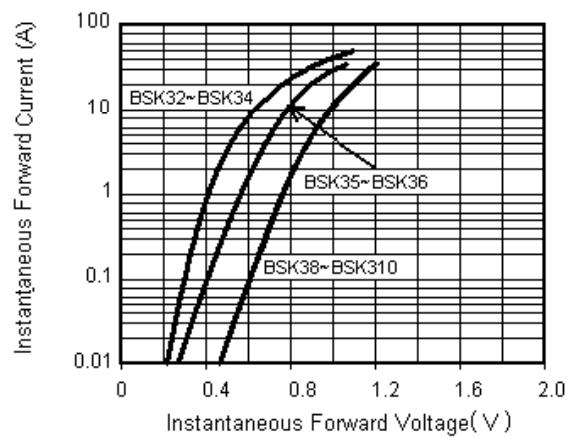


Fig.4 Typical Reverse Leakage Characteristics

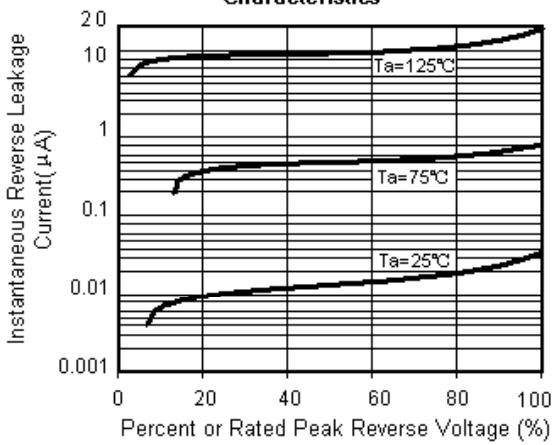


Fig.5 Typical Junction Capacitance

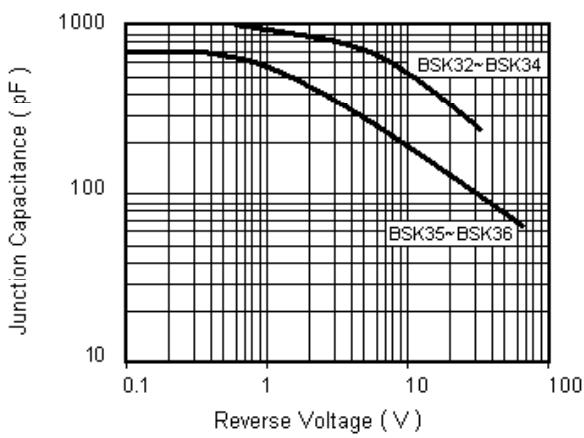


Fig.6 Transient Thermal Impedance

