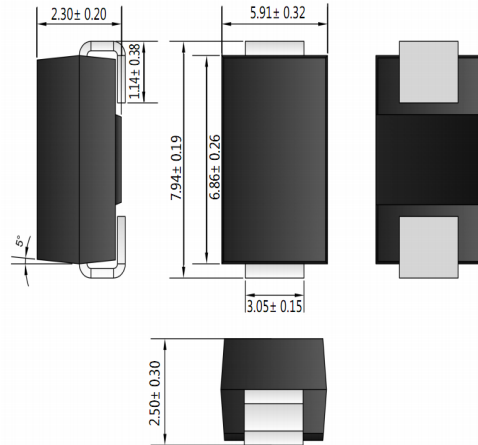


Features

- Low Forward Voltage
- Epitaxial Construction with Oxide Passivation
- Guard Ring for Transient and ESD Protection
- Surge Overload Rating to 150A Peak
- Low Power Loss
- Fast Switching
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

SMC /DO-214AB



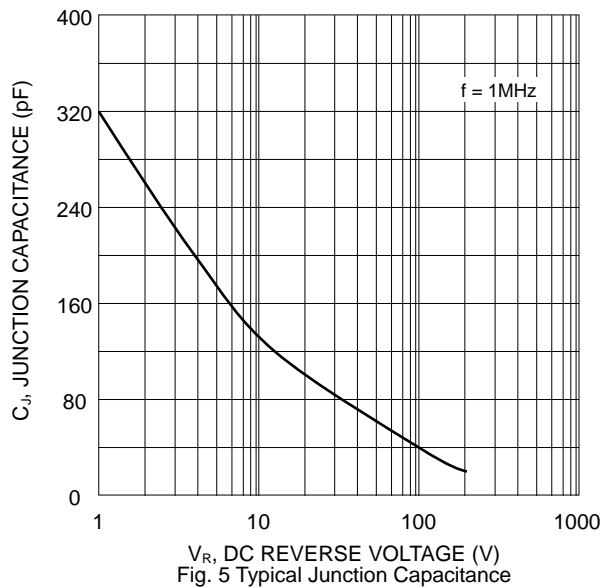
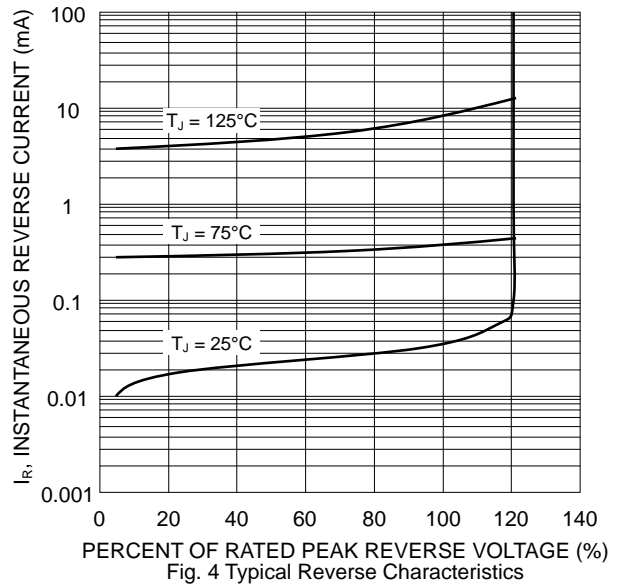
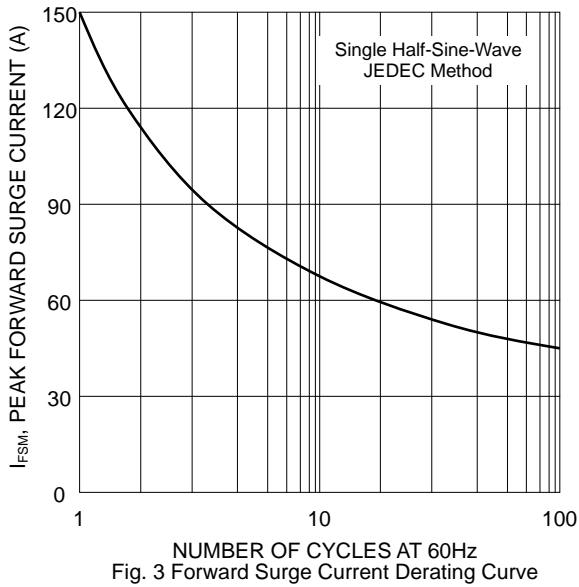
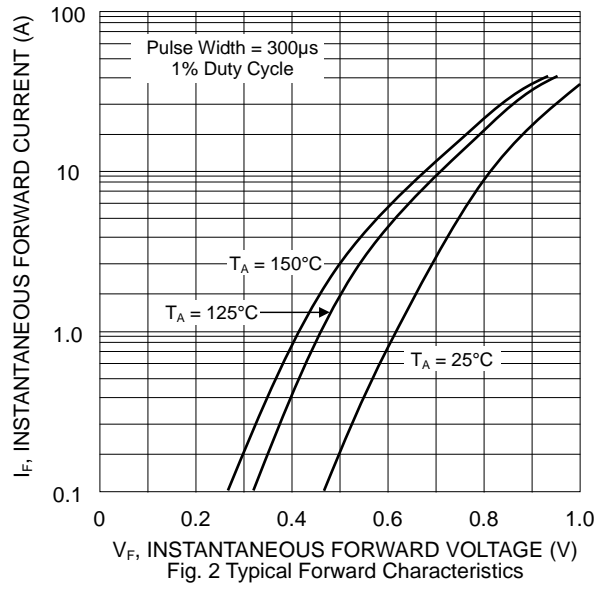
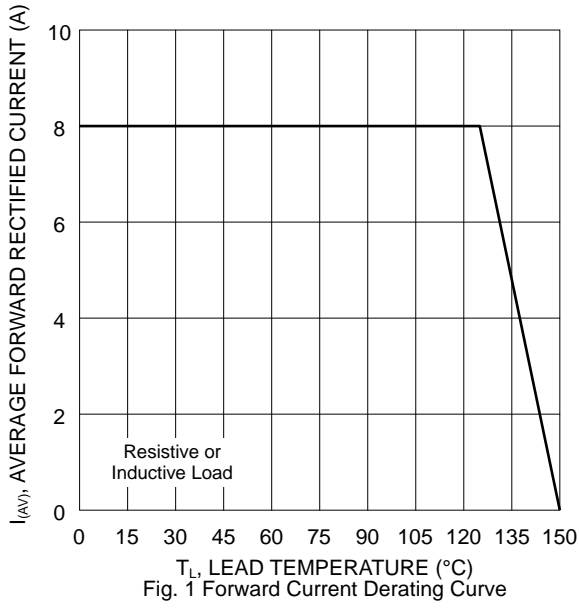
Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Device Code, See Page 3
- Weight: 0.21 grams (approx.)
- **Lead Free: For RoHS / Lead Free Version**

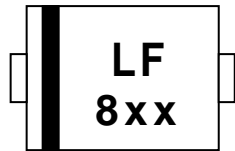
Maximum Ratings @ $T_A=25^{\circ}\text{C}$ unless otherwise specified

Characteristic	Symbol	SK8150	SK8200	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	150	200	V
Working Peak Reverse Voltage	V_{RWM}			
DC Blocking Voltage	V_R			
RMS Reverse Voltage	$V_{R(RMS)}$	105	140	V
Average Rectified Output Current (Note 1)	I_O	8.0		A
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	150		A
Forward Voltage @ $I_F = 8.0\text{A}$	V_{FM}	0.9		V
Peak Reverse Current @ $T_J = 25^{\circ}\text{C}$ At Rated DC Blocking Voltage @ $T_J = 100^{\circ}\text{C}$	I_{RM}	0.2	10	mA
Typical Junction Capacitance (Note 2)	C_J	200		pF
Thermal Resistance, Junction to Ambient (Note 1)	R_{JA}	45		$^{\circ}\text{C}/\text{W}$
Thermal Resistance, Junction to Lead (Note 1)	R_{JL}	12		
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150		$^{\circ}\text{C}$

Note: 1. Mounted on FR-4 PCB with 14 x 14mm copper pads.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

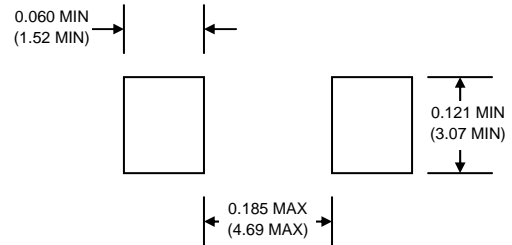


MARKING INFORMATION



Cathode = Polarity Band
 8xx = Device Code
 xx = 150 or 200

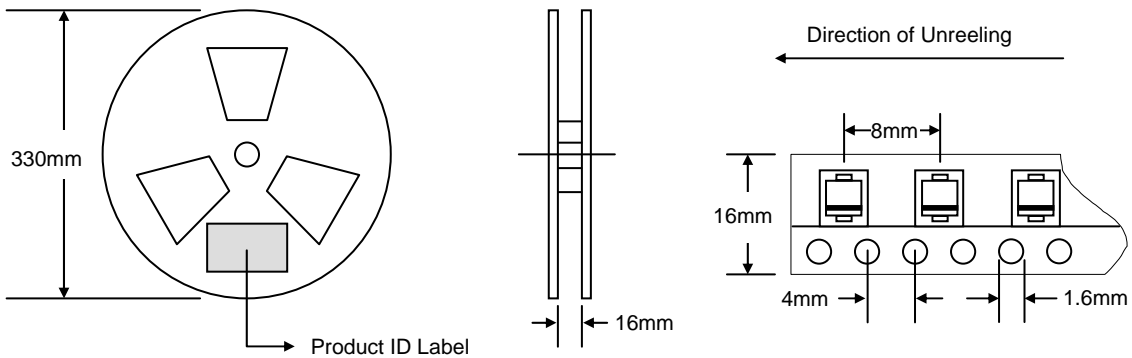
RECOMMENDED FOOTPRINT



inches(mm)

PACKAGING INFORMATION

TAPE & REEL



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
330	3,000	340 x 337 x 45	6,000	370 x 370 x 420	48,000	19.0