SCHOTTKY BARRIER RECTIFIER Reverse Voltage - 20 to 100 V Forward Current - 3 A

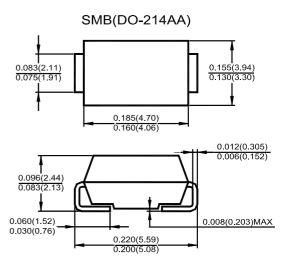
Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Built-in strain relief, ideal for automated placement
- For surface mount applications
- Low profile package
- Low power loss, high efficiency
- High current capability , Low forward voltage drop
- For use in low volatge, high frequency inverters, free wheeling, and polarity protection applications

Mechanical Data

- Case: JEDEC SMB (DO-214AA) molded plastic body
- Terminals: solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: color band denotes cathode end

Absolute Maximum Ratings and Characteristics



Dimensions in inches and (millimeters)

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load, For capacitive load, derate by 20%

Parameter	Symbols	SK32	SK33	SK34	SK35	SK36	SK38	SK3A	Units
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	57	71	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length	I _(AV)	3						А	
Peak Forward Surge Current, 8.3 ms Single Half- sine-wave Superimposed on rated load (JEDEC method)	I _{FSM}	80						A	
Maximum Forward Voltage at 3 A DC ¹⁾	V_{F}	0.55 0.75 0.85			85	V			
Maximum Reverse Current $T_A = 25 \degree C$ at Rated DC Blocking Voltage ¹⁾ $T_A = 100 \degree C$	I _R	1.5						mA	
			20		10				
Typical Junction Capacitance ³⁾	CJ	250 160				pF			
Typical Thermal Resistance ²⁾	$R_{ extsf{ heta}JA}$ $R_{ extsf{ heta}JL}$	55 17						°C/W	
Operating Junction Temperature Range	TJ	-65 to +125 -65 to +150					°C		
Storage Temperature Range	Τs	-65 to +150							°C

¹⁾ Pulse test: 300 µs pulse width, 1% duty cycle.

²⁾ P.C.B. mounted with 0.55 X 0.55" (14 X 14 mm) copper pad areas.

³⁾ Measured at 1 MHz and applied reverse voltage of 4 V.



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MOODY
Image: Construction of the construction

