

# SK84~SK820

## SCHOTTKY BARRIER RECTIFIERS

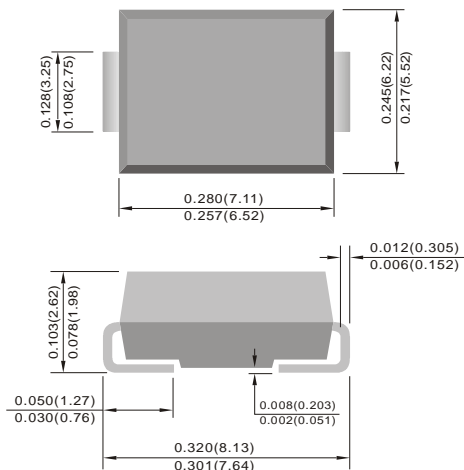
VOLTAGE 40 to 200 Volts CURRENT 8 Ampere



Lead-free Green

SMC / DO-214AB

Unit : inch(mm)



### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Low power loss, High efficiency
- High surge capacity
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

- Case: SMC molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marking
- Standard packaging: 16mm tape (EIA-481)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	SK84	SK84A	SK85	SK86	SK88	SK89	SK810	SK815	SK820	UNITS	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	40	45	50	60	80	90	100	150	200	V	
Maximum RMS Voltage	$V_{RMS}$	28	31.5	35	42	56	63	70	105	140	V	
Maximum DC Blocking Voltage	$V_{DC}$	40	45	50	60	80	90	100	150	200	V	
Maximum Average Forward Current (See Figure 1)	$I_{F(AV)}$	8									A	
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	$I_{FSM}$	150									A	
Maximum Forward Voltage at 5.0A	$V_F$	0.55		0.74			0.85		0.95		V	
Maximum DC Reverse Current $T_J=25^{\circ}C$ at Rated DC Blocking Voltage $T_J=100^{\circ}C$	$I_R$						0.2				20	mA
Typical Thermal Resistance	$R_{\theta JC}$						5				$^{\circ}C / W$	
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to +125				-55 to +155				$^{\circ}C$		

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## RATING AND CHARACTERISTIC CURVES

