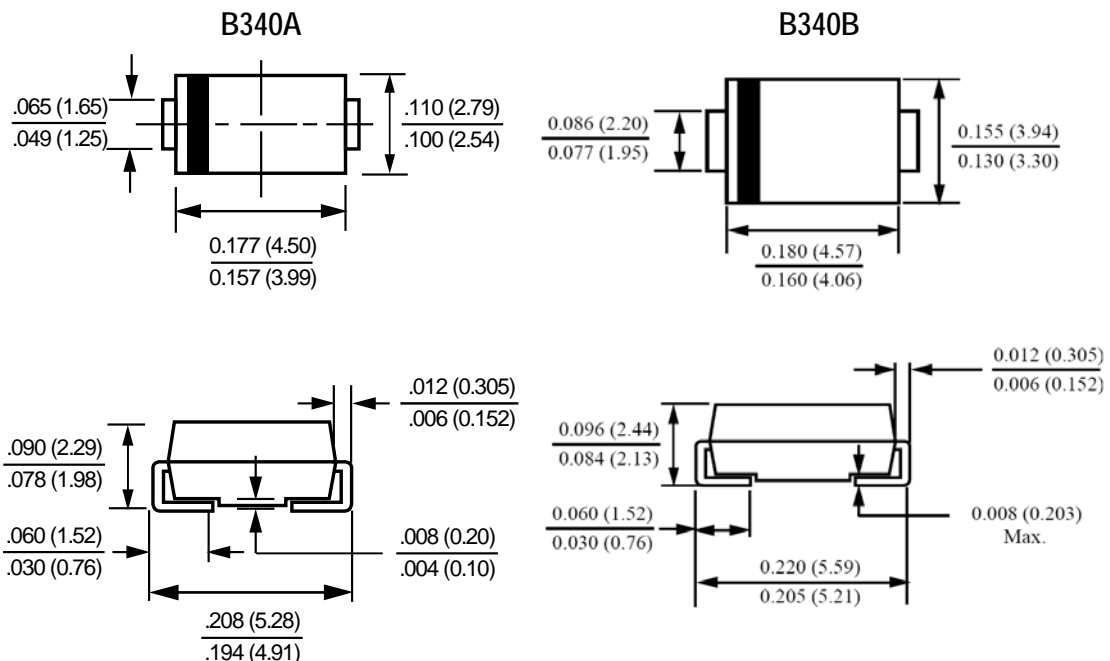


3.0A Surface Mount Schottky Barrier Rectifier

❖ PACKAGE OUTLINE



❖ 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

❖ MECHANICAL DATAPIN ASSIGNMET

- Case: DO-214AC (B340A), DO-214AA (B340B)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Terminals: Lead Free Plating (Tin Finish). Solder able per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.062/0.095 grams (approximate)

❖ ORDER/MARKING INFORMATION

Order Information	Top Marking

❖ MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

Characteristics	Symbol	Value	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Reverse Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current	I_F	3.0	A
Peak Forward Surge Current, 8.3ms Single Half	I_{FSM}	80	A
Maximum Instantaneous Forward Voltage $I_F=3A@T_A=25^{\circ}\text{C}$ (Note 3)	V_F	0.5	V
Maximum DC Reverse Current At Rated DC Blocking Voltage (Note 3)	$T_A=25^{\circ}\text{C}$	0.5	mA
	$T_A=125^{\circ}\text{C}$	10	
Typical Junction Capacitance (Note 2)	C_J	180	pF
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	70	$^{\circ}\text{C}/\text{W}$
	$R_{\theta JC}$	30	
Operating Temperature Range	T_J	-55 to +125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}\text{C}$

Notes:

1. Thermal Resistance: Junction to terminal, unit mounted on PC board with 5.0 mm² 0.013 mm thick) copper pad as heat sink.
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
3. Short duration test pulse used to minimize self-heating effect.

❖ TYPICAL CHARACTERISTICS

