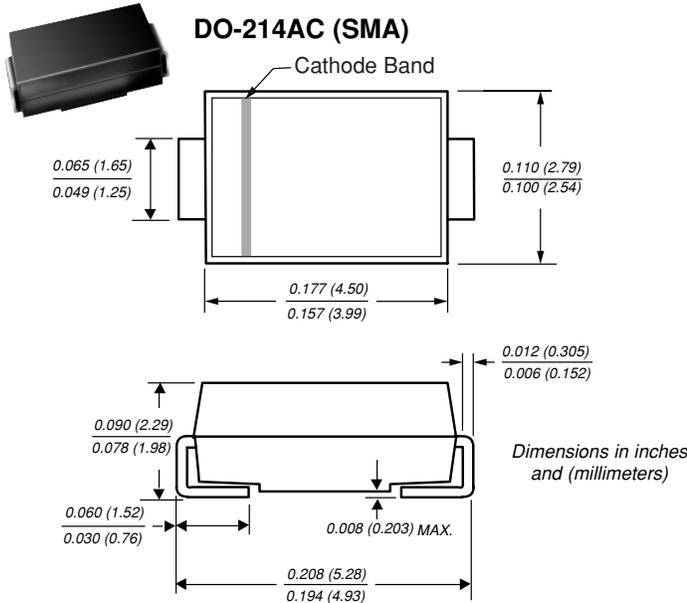


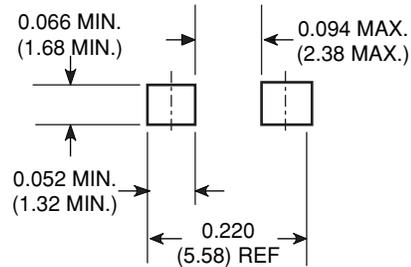


High-Current Density Surface Mount Schottky Rectifier

Reverse Voltage 30 & 40V
Forward Current 3.0A



Mounting Pad Layout



Features

- Low power loss, high efficiency
- Low profile surface mount package
- Built-in strain relief
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Guardring for overvoltage protection
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

Mechanical Data

Case: JEDEC DO-214AC molded plastic body
Terminals: Solder plated, solderable per MIL-STD750, Method 2026
 High temperature soldering guaranteed: 250°C/10 seconds at terminals
Polarity: Color band denotes cathode end
Weight: 0.002 ounce, 0.064 gram

Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

Parameter	Symbol	B330LA	B340A	Unit
Device marking code		B33	B34	V
Maximum repetitive peak reverse voltage	V _{RRM}	30	40	V
Maximum RMS voltage	V _{RMS}	21	28	V
Maximum DC blocking voltage	V _{DC}	30	40	V
Maximum average forward rectified current at T _L (See Fig. 1)	I _{F(AV)}	3.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	65		A
Typical thermal resistance ⁽²⁾	R _{θJA} R _{θJL}	110 28		°C/W
Voltage rate of change (rated V _R)	dv/dt	10,000		V/μs
Operating junction temperature range	T _J	-65 to +150		°C
Storage temperature range	T _{STG}	-65 to +150		°C

Electrical Characteristics (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Max.	Max.	Unit
Maximum instantaneous forward voltage at 3.0A ⁽¹⁾	T _J =25°C V _F	0.50	0.55	V
Maximum DC reverse current at rated DC blocking voltage ⁽¹⁾	T _J =25°C I _R	0.5	0.5	mA

Notes: (1) Pulse test: 300μs pulse width, 1% duty cycle
 (2) Aluminum substrate mounted

B330LA & B340A



Vishay Semiconductors
formerly General Semiconductor

Ratings and Characteristic Curves (T_A = 25°C unless otherwise noted)

Fig. 1 – Forward Current Derating Curve

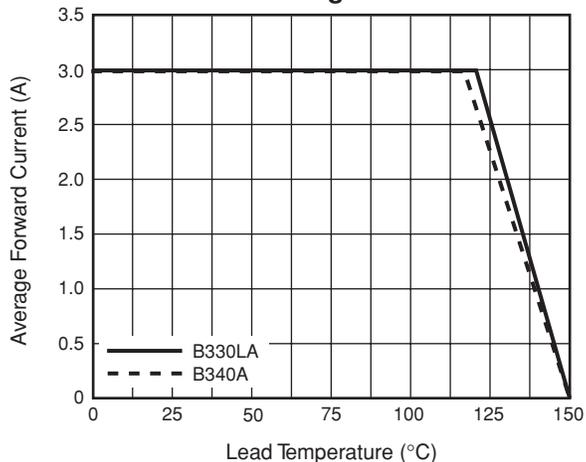


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

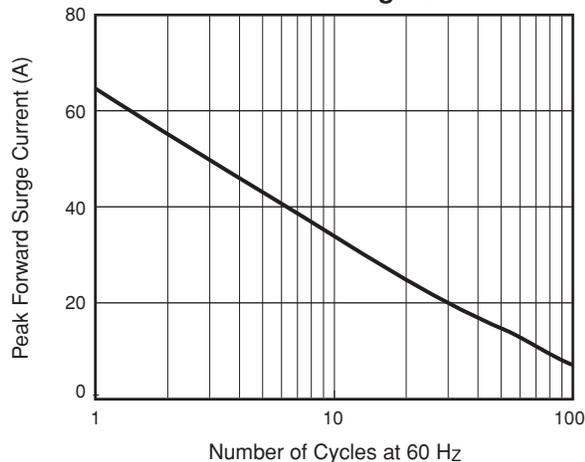


Fig. 3 – Typical Instantaneous Forward Characteristics

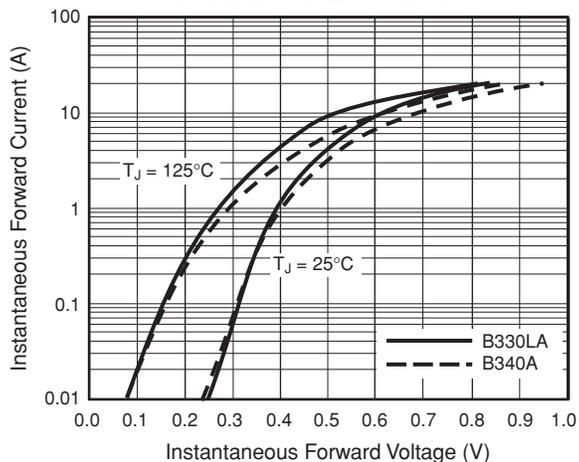


Fig. 4 – Typical Reverse Characteristics

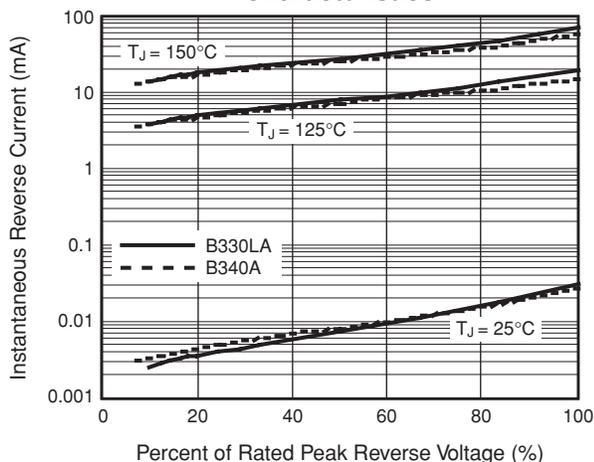


Fig. 5 – Typical Junction Capacitance

