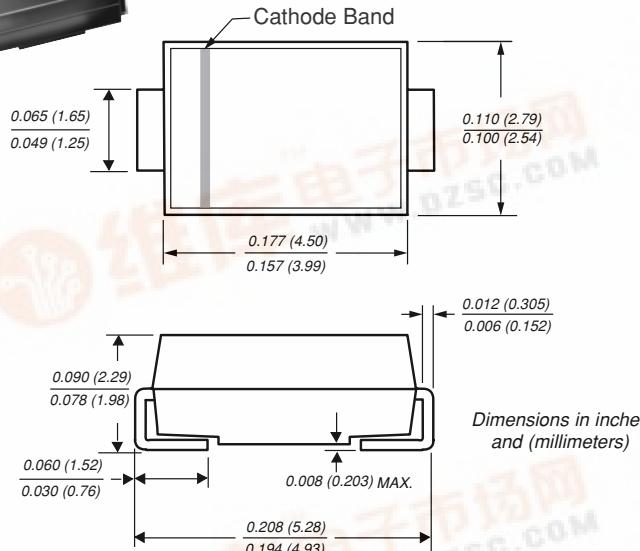
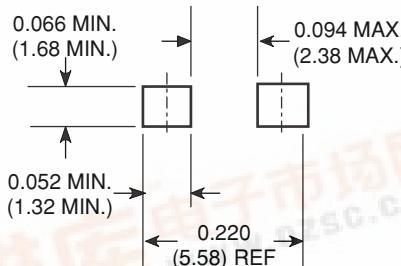




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B230LA & B240A**New Product****Vishay Semiconductors**
formerly General Semiconductor**High-Current Density Surface Mount Schottky Rectifier****DO-214AC (SMA)**Reverse Voltage 30 & 40 V
Forward Current 2.0 A**Mounting Pad Layout****Features**

- 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 2026High 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** (TA = 25°C unless otherwise noted)

Parameter	Symbol	B230LA	B240A	Unit
Device marking code		B23	B24	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)}		2.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}		50	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 (TA = 25°C unless otherwise noted)

Parameter	Symbol	Max.	Max.	Unit	
Maximum instantaneous forward voltage at 2.0A ⁽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



B230LA & B240A

Vishay Semiconductors
formerly General Semiconductor



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

Fig. 1 – Forward Current Derating Curve

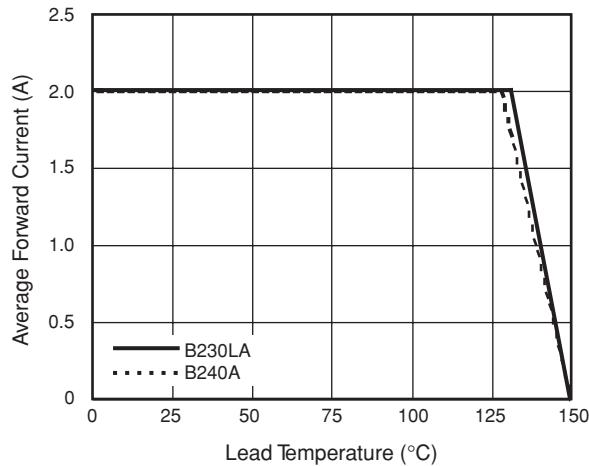


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

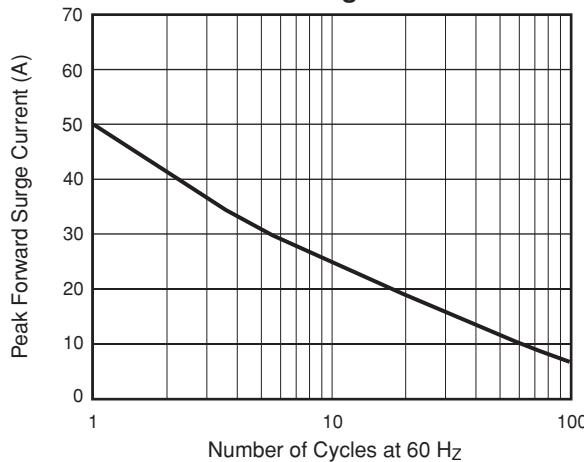


Fig. 3 - Typical Instantaneous Forward Characteristics

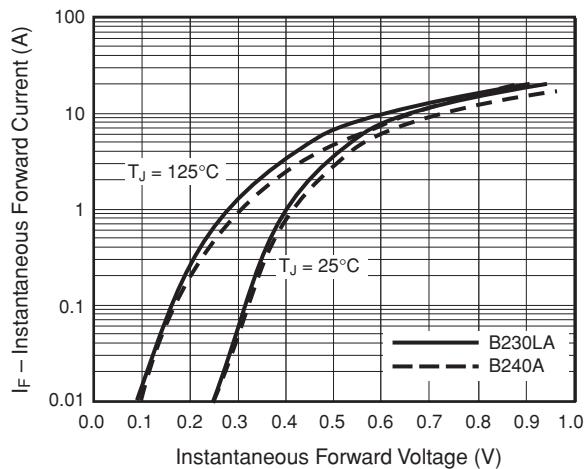


Fig. 4 - Typical Reverse Characteristics

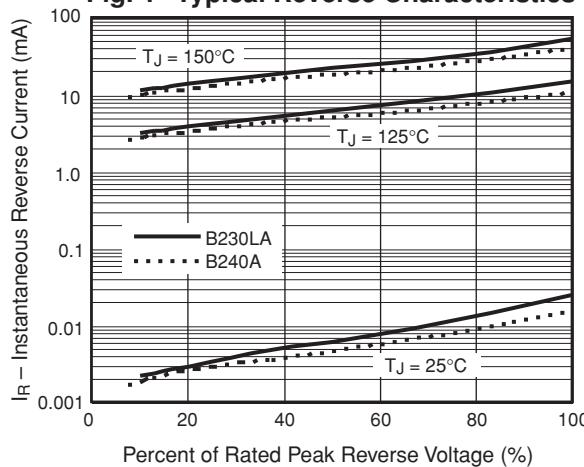


Fig. 5 - Typical Junction Capacitance

