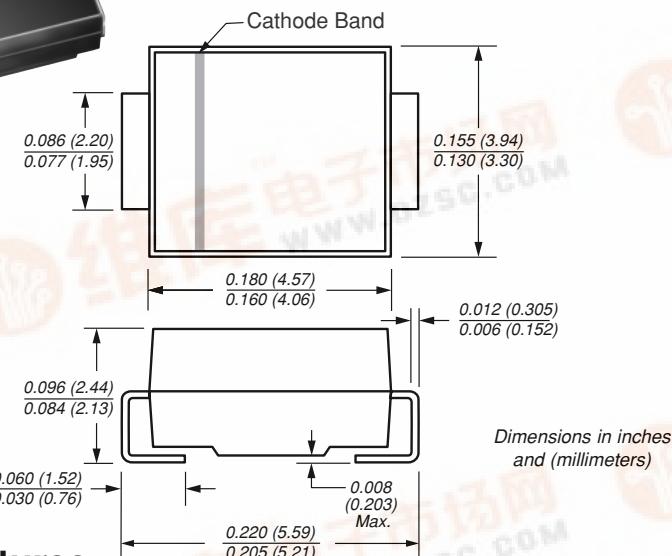
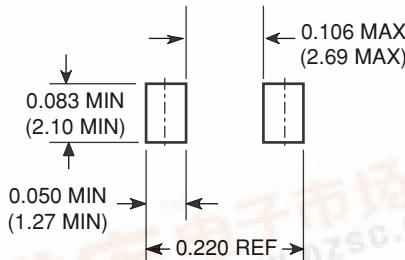




查询SSB43L供应商

捷多邦，专业PCB打样工厂，24小时加急出货

SSB43L and SSB44**New Product**Vishay Semiconductors
formerly General Semiconductor**High-Current Density Surface Mount Schottky Rectifier****DO-214AA (SMB)**Reverse Voltage 30 & 40V
Forward Current 4.0A**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-214AA 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: 0.003 oz., 0.093 g

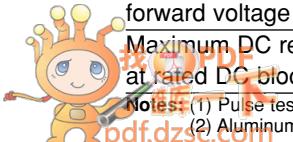
Maximum Ratings and Thermal Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	SSB43L	SSB44	Unit
Device marking code		43L	S44	
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
Max. average forward rectified current at T_L (See Fig. 1)	$I_{F(AV)}$	4.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	100		A
Typical thermal resistance ⁽²⁾	$R_{\theta JA}$ $R_{\theta JL}$	70 23		$^\circ\text{C/W}$
Voltage rate of change (rated V_R)	dv/dt	10,000		$\text{V}/\mu\text{s}$
Operating junction temperature range	T_J	−65 to +150		$^\circ\text{C}$
Storage temperature range	T_{STG}	−65 to +150		$^\circ\text{C}$

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

Parameter	Symbol	Typ.	Max.	Typ.	Max.	Unit
Maximum instantaneous forward voltage at 4.0A ⁽¹⁾	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	VF 0.43 0.33	0.45 0.38	0.45 0.37	0.49 0.42	V
Maximum DC reverse current ⁽¹⁾ at rated DC blocking voltage	$T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	IR 35	— 45	— 25	0.4 0.40	mA

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



SSB43L and SSB44

Vishay Semiconductors
formerly General Semiconductor



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

Fig. 1 – Forward Current Derating Curve

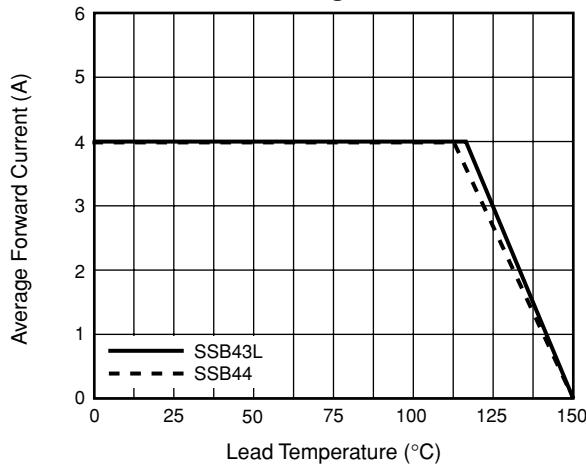


Fig. 2 – Maximum Non-Repetitive Peak Forward Surge Current

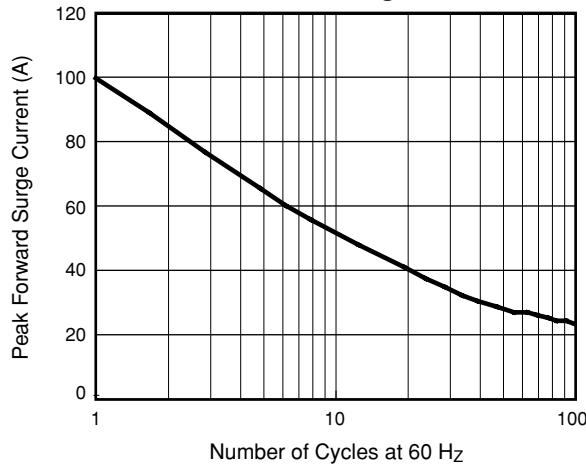


Fig. 3 – Typical Instantaneous Forward Characteristics

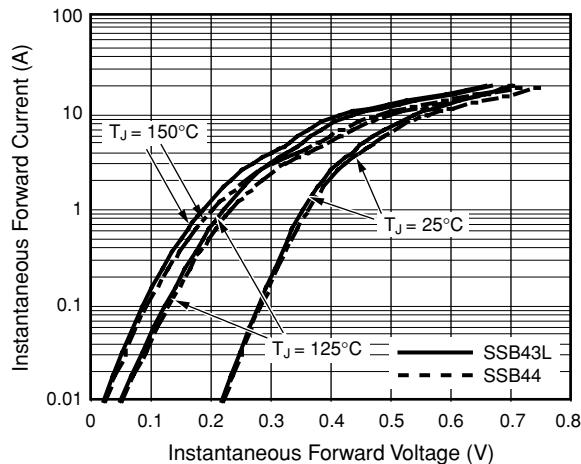


Fig. 4 – Typical Reverse Characteristics

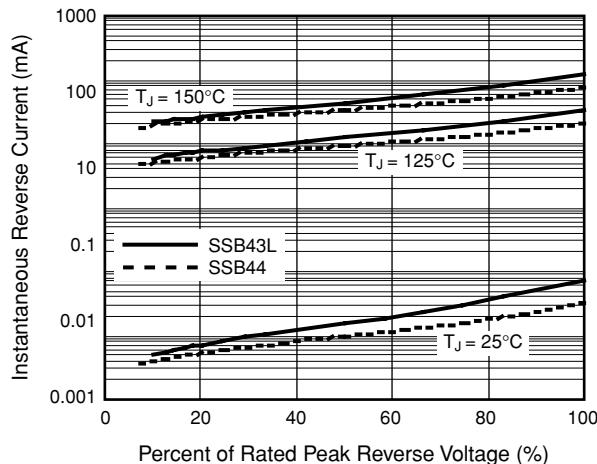


Fig. 5 – Typical Junction Capacitance

