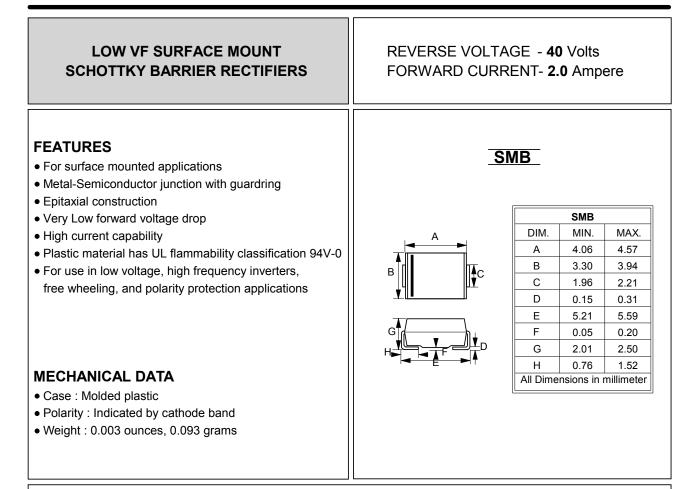
LITE ON SEMICONDUCTOR

B240L



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^\circ\!\!\!{\rm C}$ ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	B240L	l	JNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	40		V
Maximum RMS Voltage	VRMS	28		V
Maximum DC Blocking Voltage	VDC	40		V
Maximum Average ForwardRectified Current@TC =100℃	I(AV)	2.0		А
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC METHOD)	IFSM	25		A
Maximum Instantaneous @ IF= 2A; TJ=25°C Forward Voltage @ IF= 2A; TJ=125°C @ IF= 4A; TJ=25°C @ IF= 4A; TJ=25°C @ IF= 4A; TJ=125°C @ IF= 4A; TJ=125°C	VF	0.43 0.375 0.54 0.55		V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ VR= 20V; TJ =25°C @ VR= 20V; TJ =100°C @ VR= 40V; TJ =25°C @ VR= 40V; TJ =25°C @ VR= 40V; TJ =100°C	IR	0.5 40 2.0 60		mA
Typical Junction Capacitance (Note 1)	CJ	200		pF
Typical Thermal Resistance (Note 2)	Rejl	18	٥	C/W
Operating Temperature Range	TJ	-55 to +125		°C
Storage Temperature Range	Tstg	-55 to +150		°C
NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.			REV. 4, Oct-2010, KSHB11	

2. Thermal Resistance Junction to lead.

RATING AND CHARACTERISTIC CURVES B240L

FIG.1 - FORWARD CURRENT DERATING CURVE FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT 2.5 PEAK FORWARD SURGE CURRENT, AMPERES 30 AVERAGE FORWARD CURRENT AMPERES 25 2.0 20 1.5 15 1.0 10 Pulse Width 8.3ms Single Half-Sine-Wave (JEDEC METHOD) 0.5 5 SINGLE PHASE HALF WAVE 60Hz RESISTIVE OR INDUCTIVE LOAD 0 0 2 20 50 100 80 100 120 140 10 20 40 60 CASE TEMPERATURE, ℃ NUMBER OF CYCLES AT 60Hz FIG.3 - TYPICAL FORWARD CHARACTERISTICS FIG.4 - TYPICAL JUNCTION CAPACITANCE 10 1000 **NSTANTANEOUS FORWARD CURRENT**, (A) CAPACITANCE, (pF) 100 1.0 TJ = 25℃ TJ = 125 C =100 °C TJ = 25℃ F= 1MHz PULSEWIDTH:300us 10 0.1 0.1 100 $0 \hspace{0.1in} 0.05 \hspace{0.1in} 0.10 \hspace{0.1in} 0.15 \hspace{0.1in} 0.20 \hspace{0.1in} 0.25 \hspace{0.1in} 0.30 \hspace{0.1in} 0.35 \hspace{0.1in} 0.40 \hspace{0.1in} 0.45 \hspace{0.1in} 0.50 \hspace{0.1in} 0.55 \hspace{0.1in} 0.60 \hspace{0.1in} 0.65$ 1.0 40 10.0 INSTANTANEOUS FORWARD VOLTAGE , (VOLTS) REVERSE VOLTAGE , (VOLTS) FIG.5 - TYPICAL REVERSE CHARACTERISTICS 1000 INSTANTANEOUS REVERSE CURRENT, (mA) 100 TJ = 125°C 10 TJ = 100°C 1 0.1 TJ = 25℃ 0.01 0 10 20 30 35 40 45 5 15 25 RATED PEAK REVERSE VOLTAGE, (V)

LITE ON



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