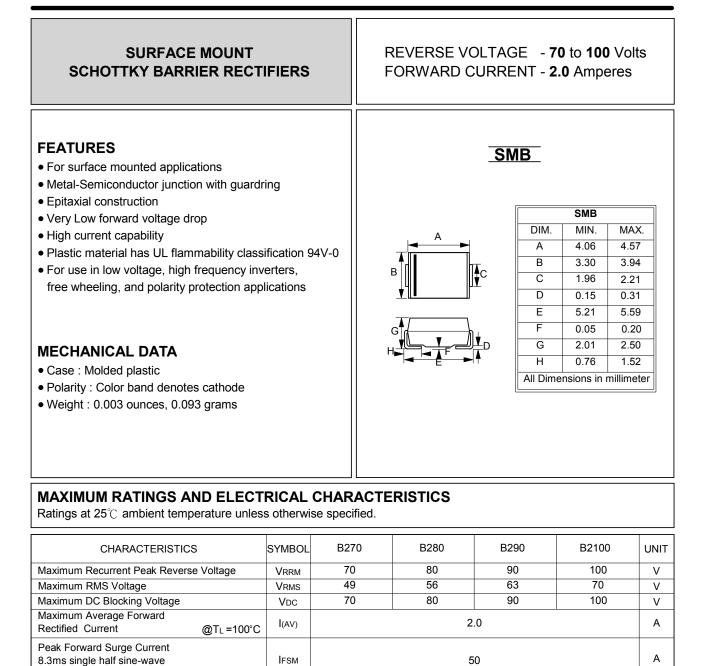
## LITE ON SEMICONDUCTOR

## B270 thru B2100



Typical Thermal Resistance (Note 2)	Rejl	15
Operating Temperature Range	TJ	-55 to +150
Storage Temperature Range	Tstg	-55 to +150
NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.		

@TJ =25°C

@TJ =100°C

@TJ =25°C

@TJ =100°C

VF

IR

СJ

REV. 8, Aug-2011, KSHB04

7.0

2

V

uA

mΑ

pF

°C/W

°C

°C

0.79

0.69

10

2

75

2. Thermal Resistance Junction to Lead.

super imposed on rated load

Maximum Forward Voltage at

Maximum DC Reverse Current

at Rated DC Blocking Voltage

2.0A DC

**Typical Junction** 

Capacitance (Note 1)

### RATING AND CHARACTERISTIC CURVES B270 thru B2100

#### FIG.1 - FORWARD CURRENT DERATING CURVE FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT PEAK FORWARD SURGE CURRENT, AMPERES 60 AVERAGE FORWARD CURRENT AMPERES 50 2.0 40 30 1.0 20 SINGLE PHASE HALF WAVE 60Hz RESISTIVE OR INDUCTIVE LOAD 10 Pulse Width 8.3ms Single Half-Sine-Wave 0 0 75 100 125 175 2 5 10 20 50 100 25 50 150 LEAD TEMPERATURE ,°C NUMBER OF CYCLES AT 60Hz FIG.3 - TYPICAL FORWARD CHARACTERISTICS FIG.4 - TYPICAL JUNCTION CAPACITANCE 1000 10 INSTANTANEOUS FORWARD CURRENT, (A) CAPACITANCE, (pF) 1 100 0.1 PULSEWIDTH:300us TJ = 25°C F= 1MHz 0.01 10 0.1 100 0 0.2 0.4 0.6 0.8 1 1.2 1.0 4.0 10.0 INSTANTANEOUS FORWARD VOLTAGE, VOLTS **REVERSE VOLTAGE**, VOLTS FIG.5 - TYPICAL REVERSE CHARACTERISTICS 10 **INSTANTANEOUS REVERSE CURRENT**, (mA) 1 T」 = 125℃ Tj = 100℃ 0.1 0.01 0.001 . TJ = 25℃ 0.0001 0.00001 0 40 60 100 120 20 80 PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

# **LITE ON**



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