## RATING AND CHARACTERISTIC CURVES SBF1050CT thru SBF1060CT

## FIG.1-FORWARD CURRENT DERATING CURVE FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT 12 150 L42xH25xW25mm\_black Aluminum finny heat sink,Rth j-c=6.5°C/W ₹ ₹ 10 PEAK FORWARD SURGE CURRENT, 125 AVERAGE FORWARD CURRENT, 8 Without heat sink, 100 Rth j-c=11°C/W 6 75 50 4 2 25 8.3ms Single Half Sine-Wave RESISTIVE OR INDUCTIVE LOAD 0 0 10 100 0 25 50 75 100 125 1 NUMBER OF CYCLES AT 60Hz CASE TEMPERATURE, (C) FIG.3- TYPICAL REVERSE CHARACTERISTICS FIG.4- TYPICAL FORWARD CHARACTERISTICS 100 100 10 INSTANTANEOUS REVERSE INSTANTANEOUS FORWARD Tj=100°C 10 CURRENT, (mA) CURRENT, (A) 1 0.1 Tj=25°C 1 Tj=25°C, PULSE WIDTH 300us, 0.01 2% Duty Cycle 0.001 0.1 40 60 80 100 120 140 0 20 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 PERCENT OF RATED PEAK REVERSE VOLTAGE, (V) INSTANTANEOUS FORWARD VOLTAGE, (V) FIG.5- TYPICAL JUNCTION CAPACITANCE FIG.6- DC REVERSE VOLTAGE DERATING CURVE 120 1000 L42xH25xW25mm\_black Aluminum finny heat sink, Rth j-a : 13°C/W PERCENT OF DC REVERSE VOLTAGE (%) 07 09 08 00 08 ТП CAPACITANCE, (pF) 60 100 Ц Without heat sink, Rth j-a : 28°C/W Tj=25°C, f=1MHz 10 0 0.1 100 10 1 0 25 50 75 100 125 REVERSE VOLTAGE, (V) AMBIENT TEMPERATURE, ( °C)



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