RATING AND CHARACTERISTIC CURVES GBJ25JL

FIG.2-MAXIMUM NON-REPETITIVE SURGE FIG.1-FORWARD CURRENT DERATING CURVE CURRENT 30 300 PEAK FORWARD SURGE CURRENT, (A) AVERAGE FORWARD CURRENT, (A) 1 31 07 52 1 32 42 250 200 With heatsink_314*314*20 mm Aluminum plate 150 100 50 8.3ms Single Half Sine-Wave Without heatsink 0 0 0 25 50 75 100 125 150 1 10 100 CASE TEMPERATURE, (℃) NUMBER OF CYCLES AT 60Hz FIG.3- TYPICAL FORWARD CHARACTERISTICS FIG.4- TYPICAL JUNCTION CAPACITANCE 100 1000 Tj=150℃ INSTANTANEOUS FORWARD CAPACITANCE, (pF) 10 CURRENT, (A) Ti=125℃ 100 **Tj=25**℃ 1 Tj=25℃, f=1MHz 0.1 10 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.1 1.2 1 10 100 1 INSTANTANEOUS FORWARD VOLTAGE, (V) REVERSE VOLTAGE, (V) FIG.5- TYPICAL REVERSE CHARACTERISTICS FIG.6- FORWARD POWER DISSIPATION 1000 50 INSTANTANEOUS REVERSE CURRENT, FORWARD POWER DISSIPATION PF Tj=150℃ 40 100 Tj=125℃ Tj=100℃ 10 30 (M Tj=75℃ Ś Tj=50℃ 20 1 Tj=25℃ 10 0.1 Tj=150℃ 0 0.01 0 5 10 15 20 25 100 200 300 400 500 600 700 800 PERCENT OF RATED PEAK REVERSE VOLTAGE, (V) AVERAGE RECTIFIER FORWARD CURRENT, (A)

ΓΕΙ



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