GeneSiC™
SEMICONDUCTOR

FIG.1-DERATING CURVE FOR OUTPUT RECTIFIER CURRENT

AVERAGE FORWARD OUTPUT CURRENT,AMPERES

60 Hz
RESISTIVE OR
INDUCTIVE
LOAD

AMBIENT TEMPERATURE.°C

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

PEAK FORWARD SURGE CURRENT, AMPERES

Tₐ=25°C
SINGLE SINE-WAVE
(JEDEC Method)

1,0 CYCLES

NUMBER OF CYCLES AT 60 Hz

FIG.3-TYPICAL FORWARD CHARACTERISTICS PER LEG

INSTANTANEOUS FORWARD CURRENT, AMPERES

Tⱼ=25°C
PULSE WIDTH=300 μs
1% DUTY CYCLE

INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG.4-TYPICAL REVERSE CHARACTERISTICS PER LEG

INSTANTANEOUS REVERSE CURRENT, MICROAMPERES

Tⱼ=100°C

Tⱼ=25°C

PERCENT OF RATED PEAK REVERSE VOLTAGE, %

FIG.5-TYPICAL JUNCTION CAPACITANCE PER LEG

JUNCTION CAPACITANCE,pF

Tⱼ=25°C
f=1,0MHz
Vsig=50mVp-p

REVERSE VOLTAGE,VOLTS

FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

TRANSIENT THERMAL IMPEDANCE,°C/W

t, HEATING TIME,sec.
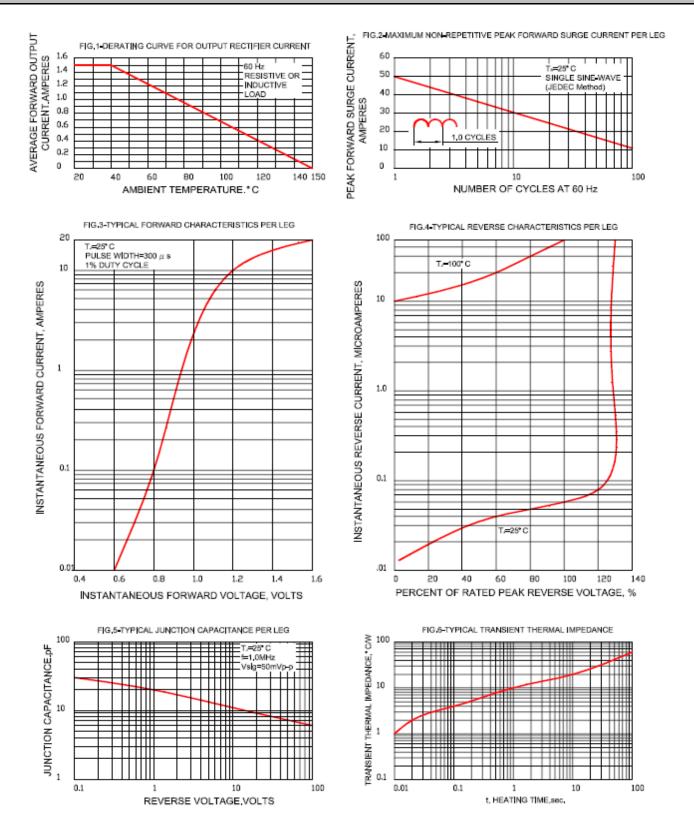
Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.

DB

$\dfrac{0.255(6.5)}{0.245(6.2)}$ $\dfrac{0.315(8.00)}{0.285(7.24)}$

$\dfrac{0.335(8.51)}{0.320(8.12)}$

$\dfrac{0.105(2.69)}{0.086(2.19)}$

$\dfrac{0.045(1.14)}{0.035(0.89)}$

$\dfrac{0.080(2.03)}{0.050(1.27)}$

$\dfrac{0.023(0.58)}{0.018(0.46)}$

$\dfrac{0.185(4.69)}{0.150(3.81)}$

$\dfrac{0.013(3.3)}{0.0086(0.22)}$

$\dfrac{0.205(5.2)}{0.195(5.0)}$

$\dfrac{0.075(1.90)}{0.065(1.39)}$

$\dfrac{0.350(8.9)}{0.300(7.6)}$

Dimensions in inches and (millimeters)