

GBL540

Description

The GBL540 is designed for Low Voltage, High Frequency Inverter, Free Wheeling, and Polarity Protection Application.

Package Dimensions

TO-252

Circuit:

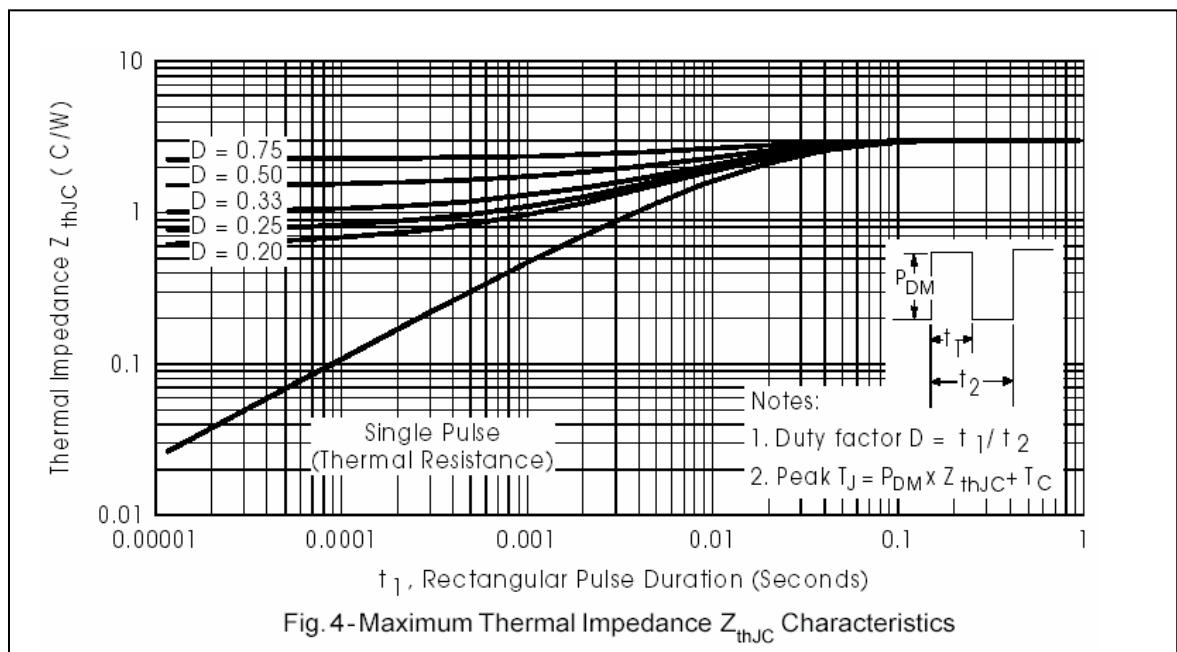
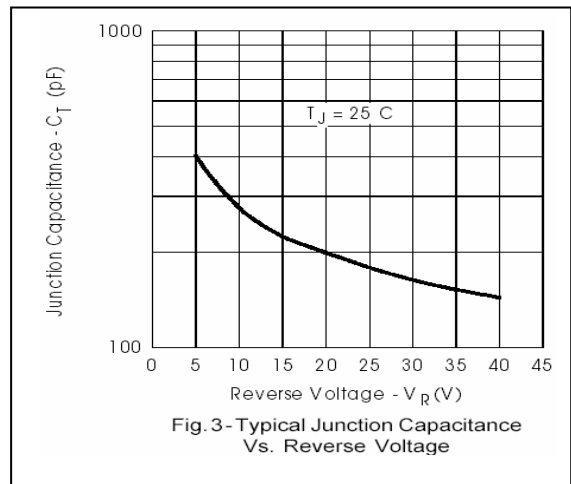
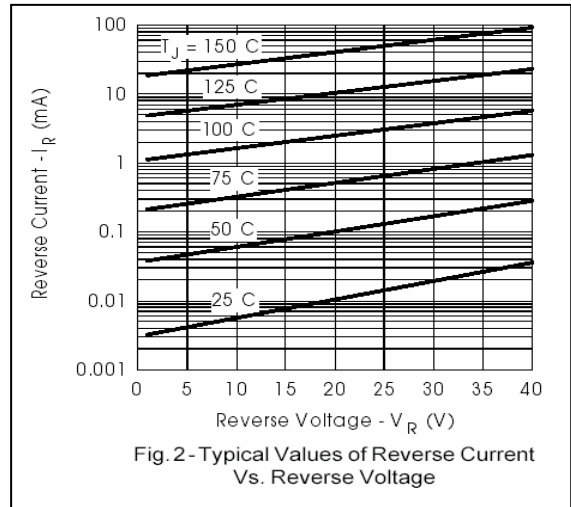
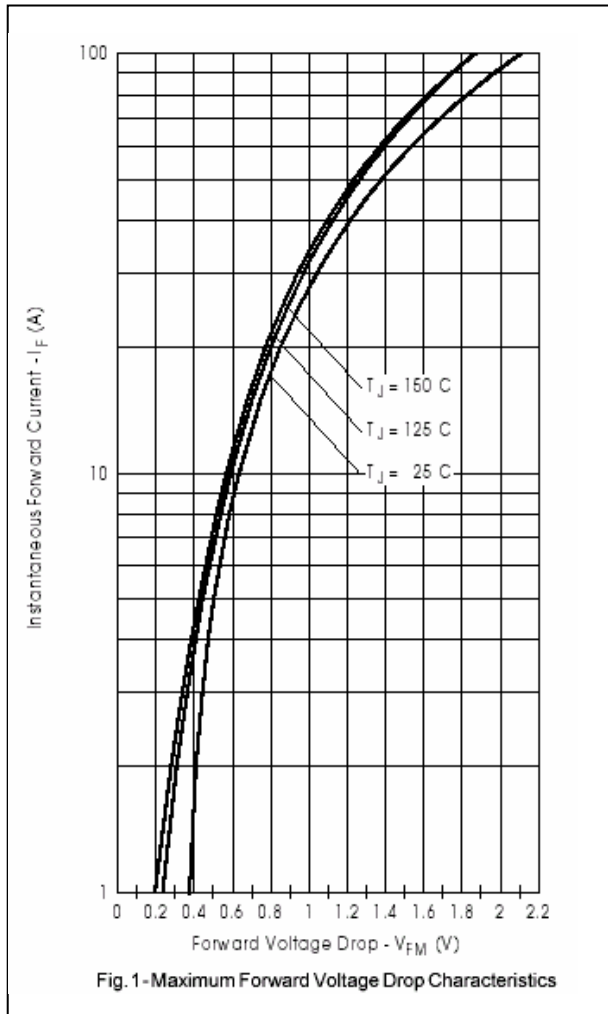
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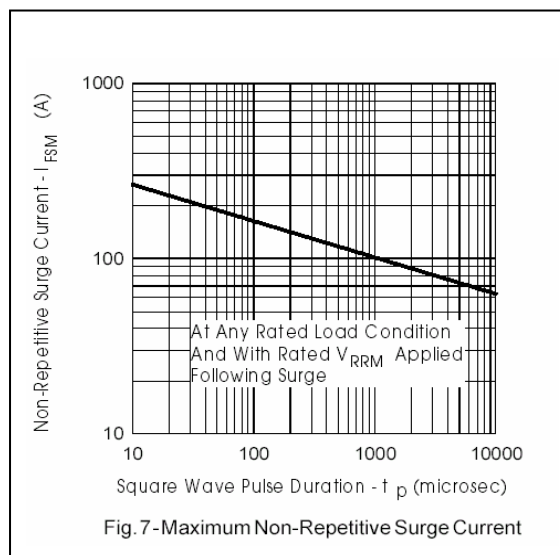
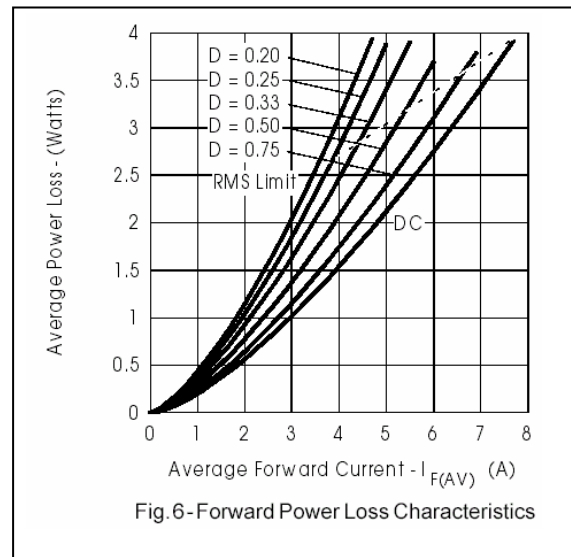
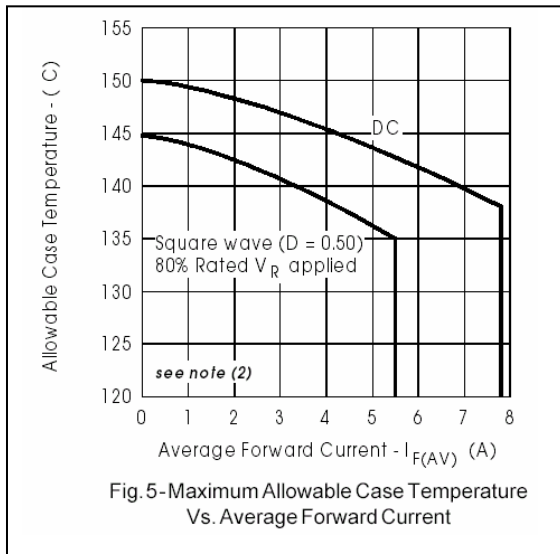
REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.40	6.80	G	0.50	0.70
B	5.20	5.50	H	2.20	2.40
C	6.80	7.20	J	0.45	0.55
D	2.20	2.80	K	0	0.15
E	2.30 REF.		L	0.90	1.50
F	0.70	0.90	M	5.40	5.80
S	0.60	0.90	R	0.80	1.20

Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Junction Temperature	T_j	-40~+125	°C
Storage Temperature	T_{stg}	-40~+125	°C
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	3.0	°C/W
Typical Junction Capacitance	C_j	405	pF
Reverse Leakage Current @ $T_j = 25\text{ }^\circ\text{C}$ $V_R=40\text{V}$	I_{RM}	0.3	mA
Reverse Leakage Current @ $T_j = 125\text{ }^\circ\text{C}$ $V_R=40\text{V}$		40	mA
Forward Voltage Drop @ $I_F = 5.0\text{A}$, $T_j = 25\text{ }^\circ\text{C}$	V_{FM}	0.55	V
Forward Voltage Drop @ $I_F = 5.0\text{A}$, $T_j = 125\text{ }^\circ\text{C}$		0.44	V
Non-Repetitive Peak Forward Surge Current 5us Single half Sine-wave superimposed on rated load	I_{FSM}	340	A
Non-Repetitive Peak Forward Surge Current 10ms Single half Sine-wave superimposed on rated load		70	
Rectangular waveform	I_F	5.0	A
DC Reverse Voltage	$V_{R(RMS)}$	40	V
Working Peak Reverse Voltage	V_{RWM}	40	V

Characteristics Curve





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