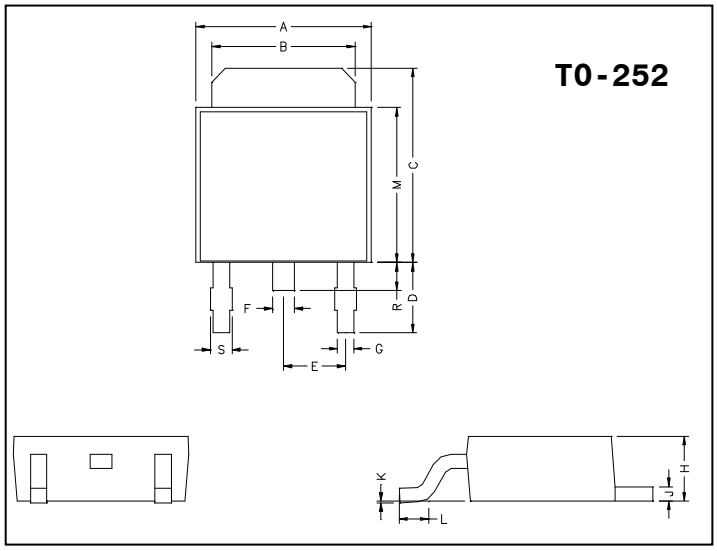
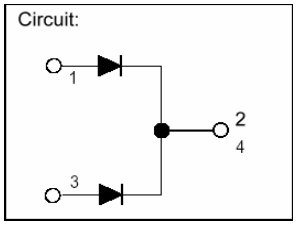
GBG1040CT

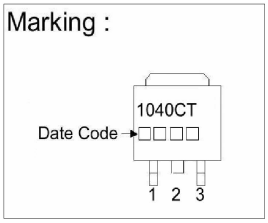
Description

The GBG1040CT is designed for low voltage, high frequency inverter, free wheeling, and polarity protection application.

Package Dimensions







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	Tj	-40~+125	℃
Storage Temperature	Tstg	-40~+125	℃
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	3.0	℃/W
Typical Junction Capacitance	C_j	405	pF
Reverse Leakage Current @ Tj = 25 ℃ VR=40V	I_{RM}	0.3	mA
Reverse Leakage Current @ Tj = 125 ℃ VR=40V		40	mA
Forward Voltage Drop @ I_F = 5.0A , Tj = 25 ℃	V_{FM}	0.55	V
Forward Voltage Drop @ I_F = 5.0A , Tj = 125 ℃		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	10	A
RMS Reverse Voltage	$V_{R(RMS)}$	40	V
Peak Repetitive Reverse Voltage	V_{RRM}	40	V

Characteristics Curve

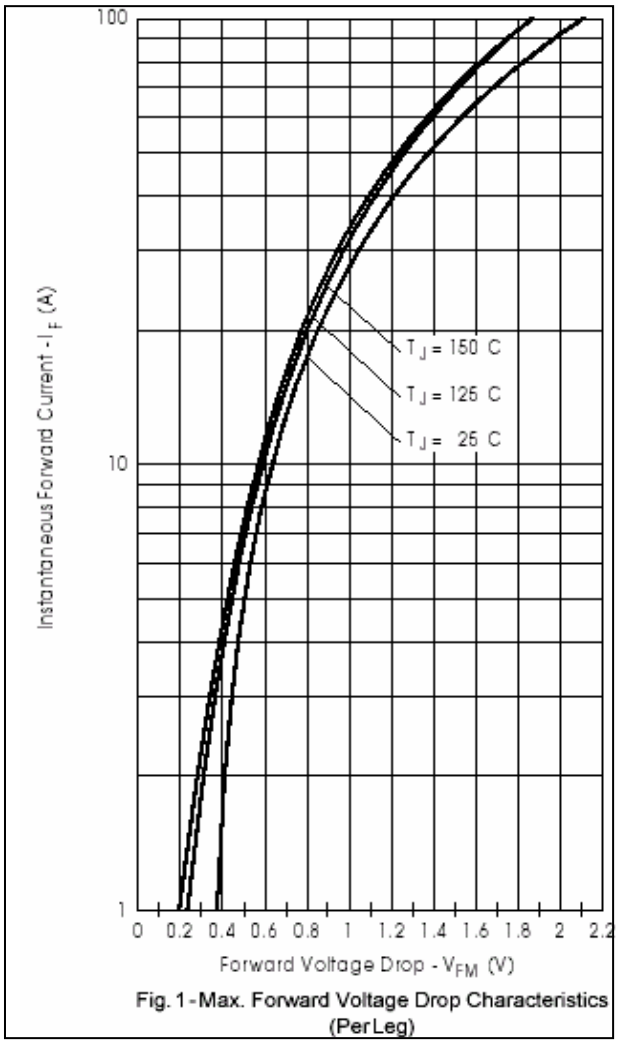


Fig. 1 - Max. Forward Voltage Drop Characteristics (Per Leg)

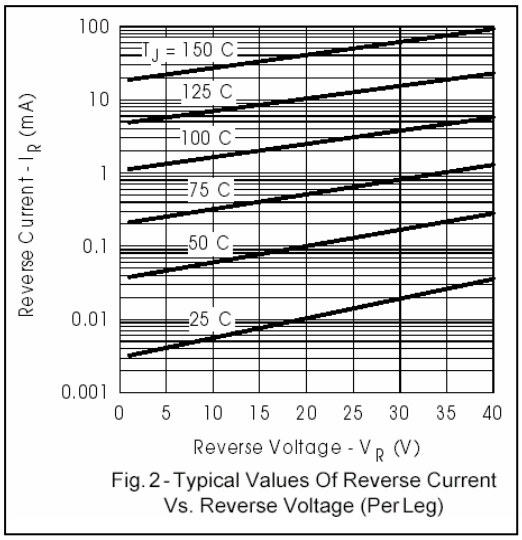


Fig. 2 - Typical Values Of Reverse Current Vs. Reverse Voltage (Per Leg)

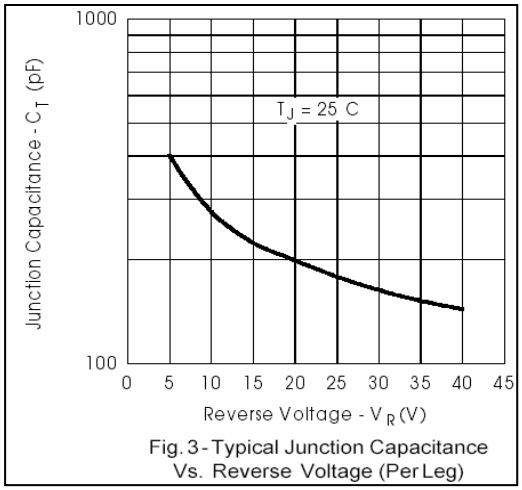


Fig. 3 - Typical Junction Capacitance Vs. Reverse Voltage (Per Leg)

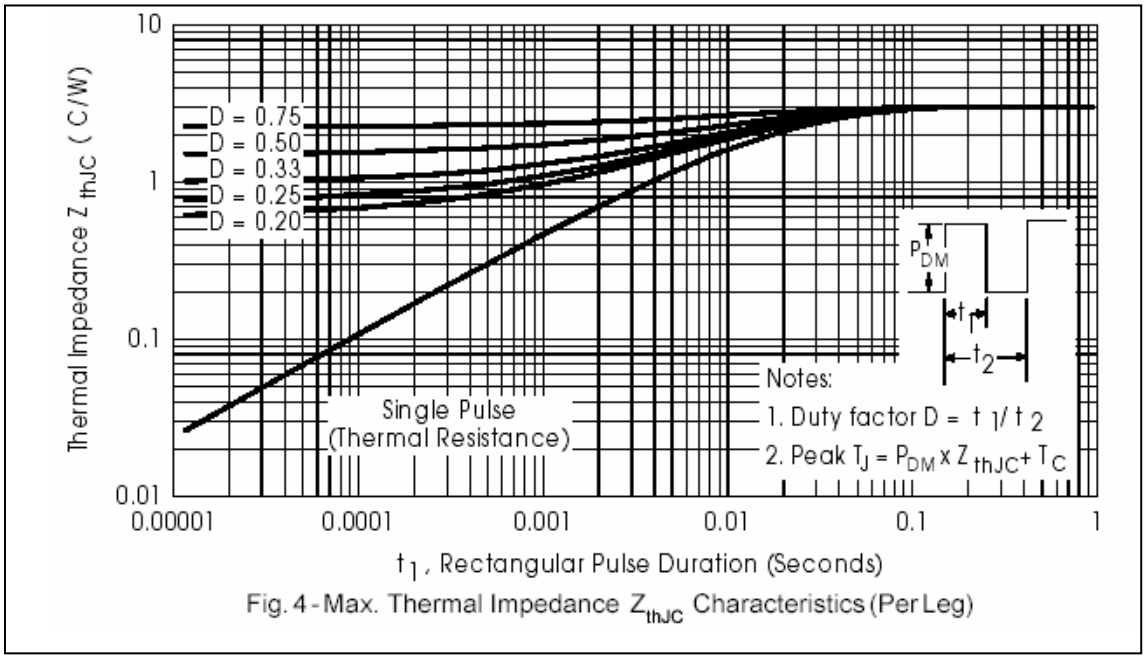


Fig. 4 - Max. Thermal Impedance Z_{thJC} Characteristics (Per Leg)

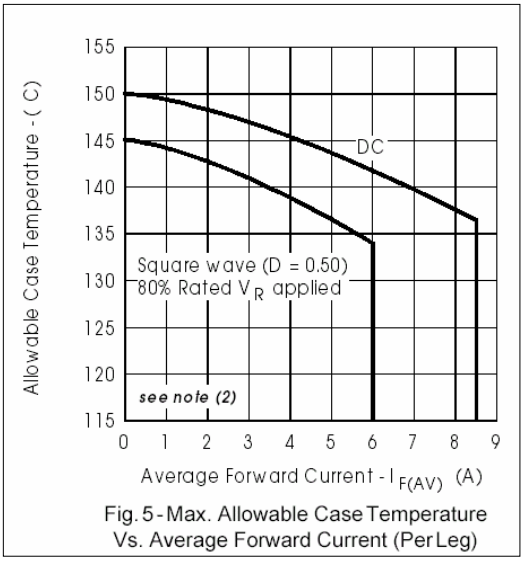


Fig. 5 - Max. Allowable Case Temperature Vs. Average Forward Current (Per Leg)

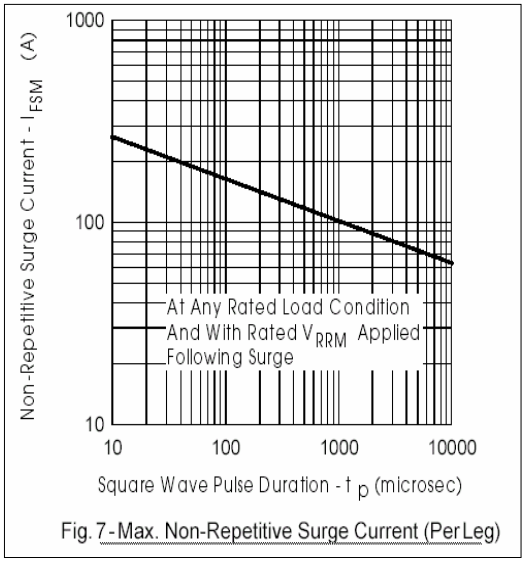


Fig. 7 - Max. Non-Repetitive Surge Current (Per Leg)

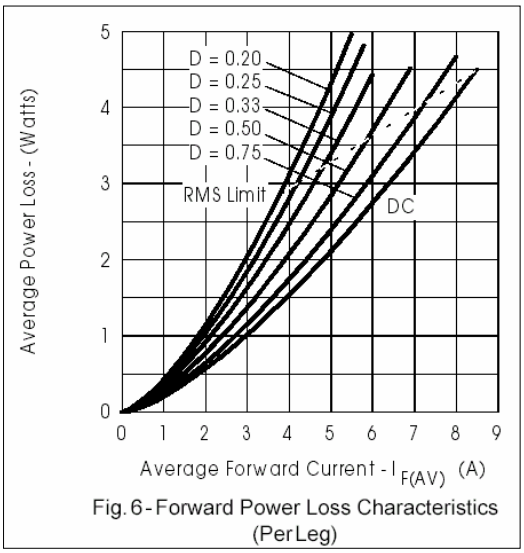


Fig. 6 - Forward Power Loss Characteristics (Per Leg)

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