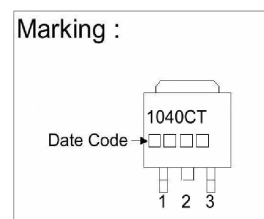
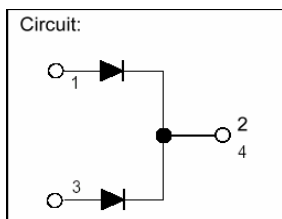
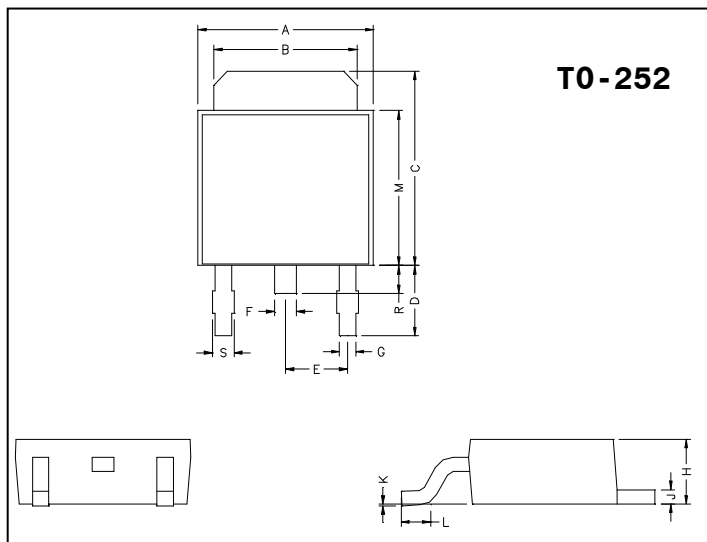


GBG1040CT

Description

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

Package Dimensions

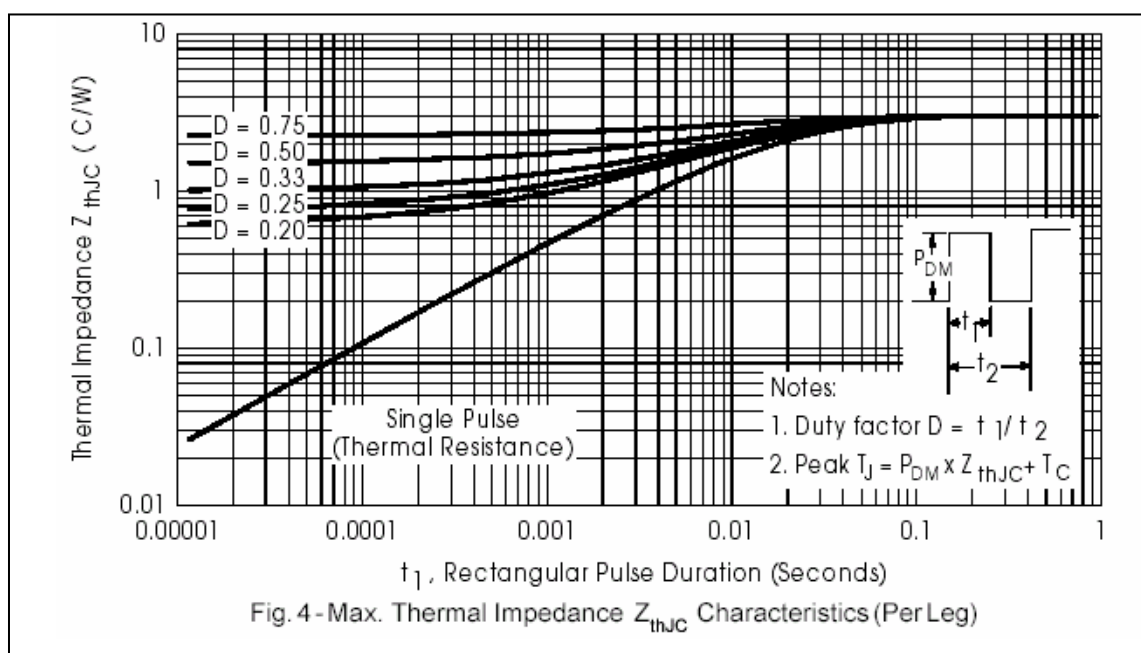
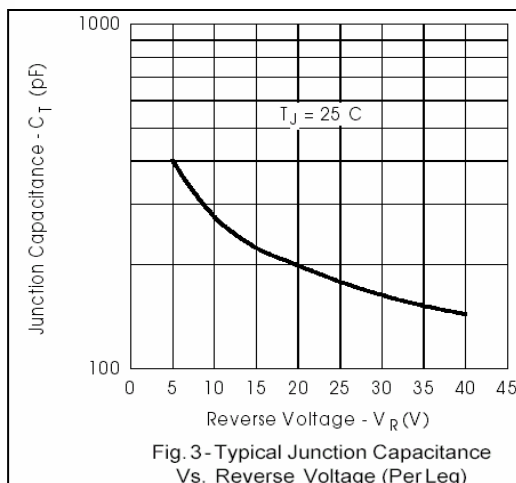
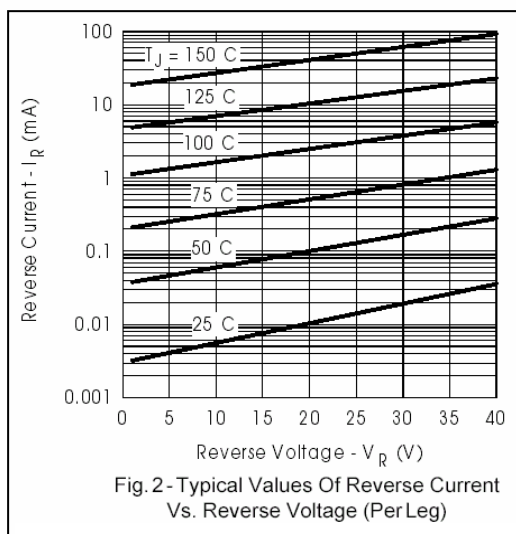
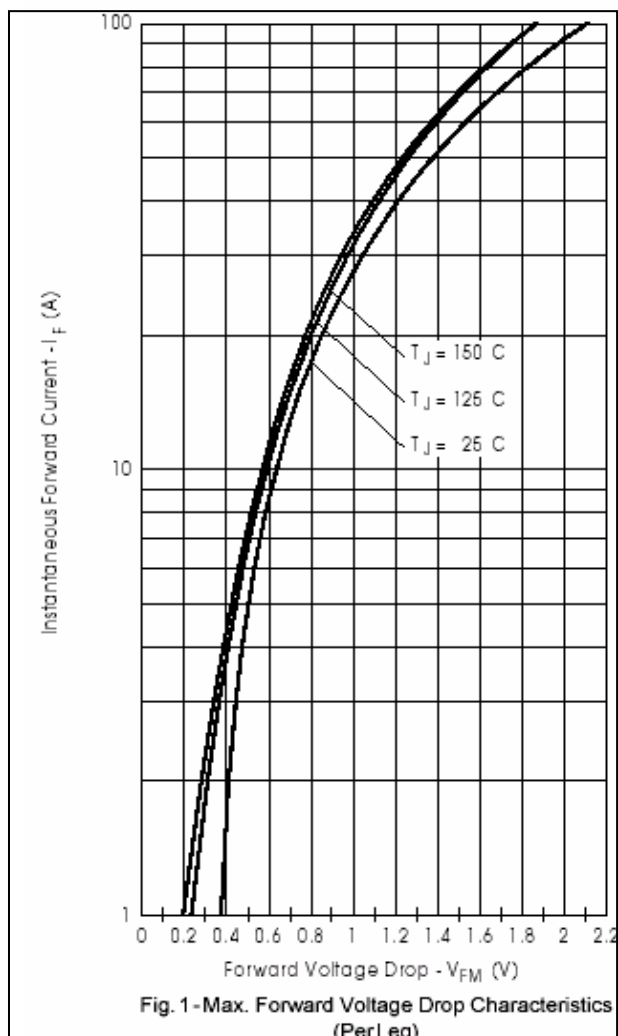


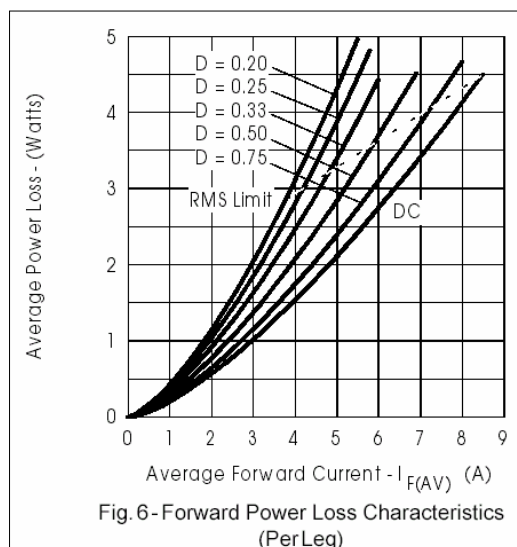
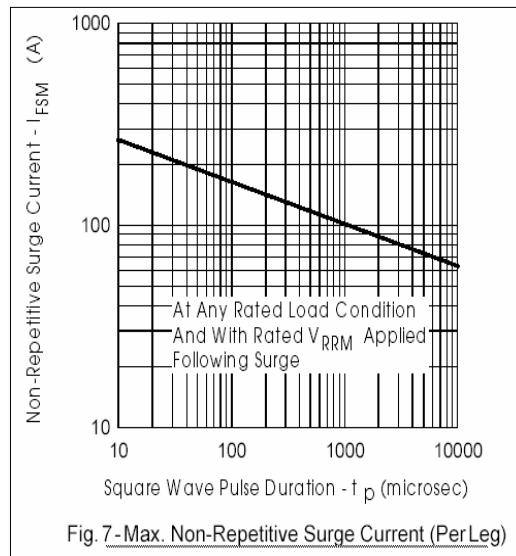
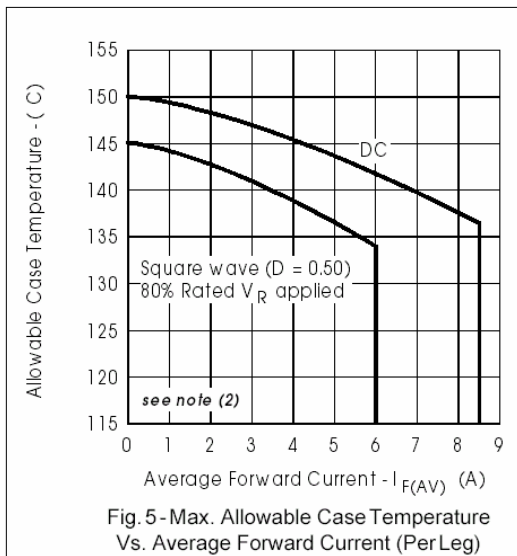
REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.40	6.80	G	0.50	0.70
B	5.20	5.50	H	2.20	2.40
C	6.80	7.20	J	0.45	0.55
D	2.20	2.80	K	0	0.15
E	2.30 REF.		L	0.90	1.50
F	0.70	0.90	M	5.40	5.80
S	0.60	0.90	R	0.80	1.20

Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Junction Temperature	T_J	-40~+125	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40~+125	$^{\circ}\text{C}$
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	3.0	$^{\circ}\text{C/W}$
Typical Junction Capacitance	C_j	405	pF
Reverse Leakage Current @ $T_J = 25^{\circ}\text{C}$ $V_R=40\text{V}$	I_{RM}	0.3	mA
Reverse Leakage Current @ $T_J = 125^{\circ}\text{C}$ $V_R=40\text{V}$		40	mA
Forward Voltage Drop @ $I_F = 5.0\text{A}$, $T_J = 25^{\circ}\text{C}$	V_{FM}	0.55	V
Forward Voltage Drop @ $I_F = 5.0\text{A}$, $T_J = 125^{\circ}\text{C}$		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	10	A
RMS Reverse Voltage	$V_{R(RMS)}$	40	V
Peak Repetitive Reverse Voltage	V_{RRM}	40	V

Characteristics Curve





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Head Office And Factory:

- **Taiwan:** No. 17-1 Tatung Rd. Fu Kou Hsin-Chu Industrial Park, Hsin-Chu, Taiwan, R. O. C.
TEL : 886-3-597-7061 FAX : 886-3-597-9220, 597-0785
- **China:** (201203) No.255, Jang-Jiang Tsai-Lueng RD. , Pu-Dung-Hsin District, Shang-Hai City, China
TEL : 86-21-58957671 FAX : 86-21-38950165