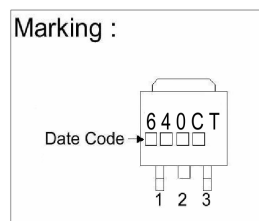
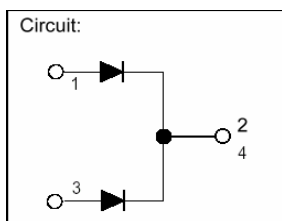
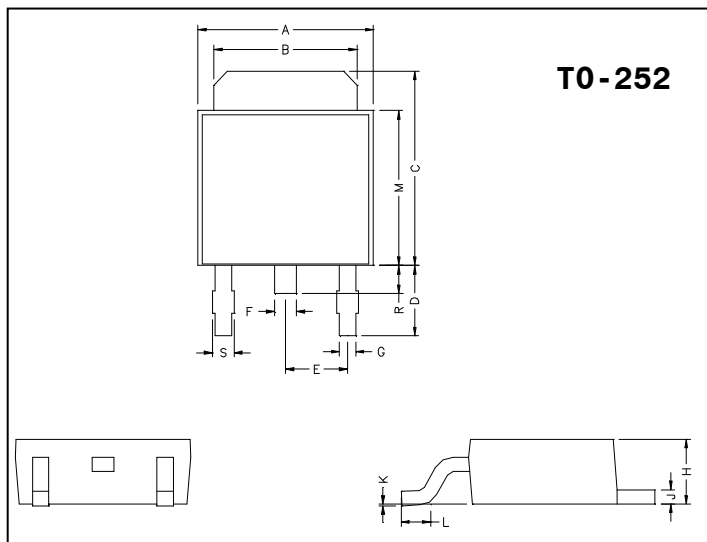


GBG640CT

Description

The GBG640CT is designed for low voltage, high frequency inverter, free wheeling, and polarity protection application.

Package Dimensions

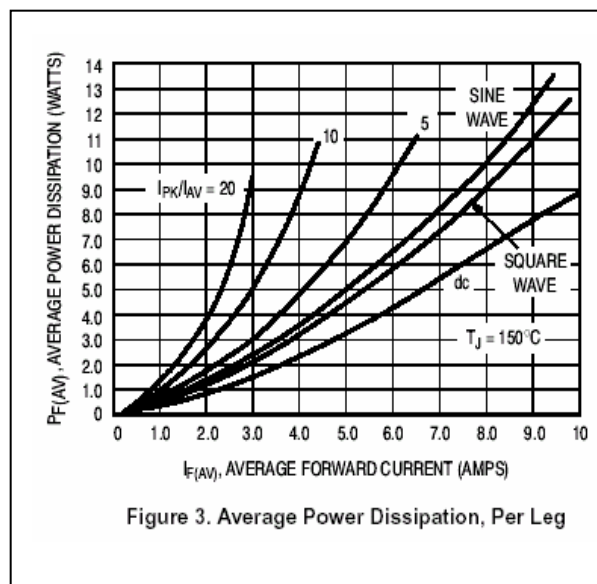
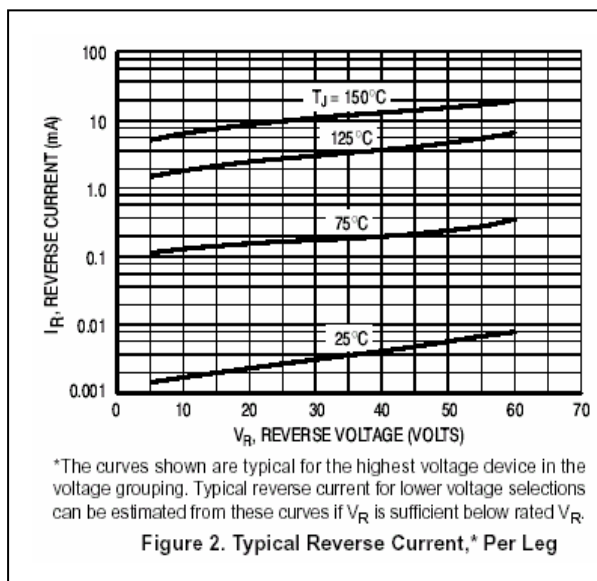
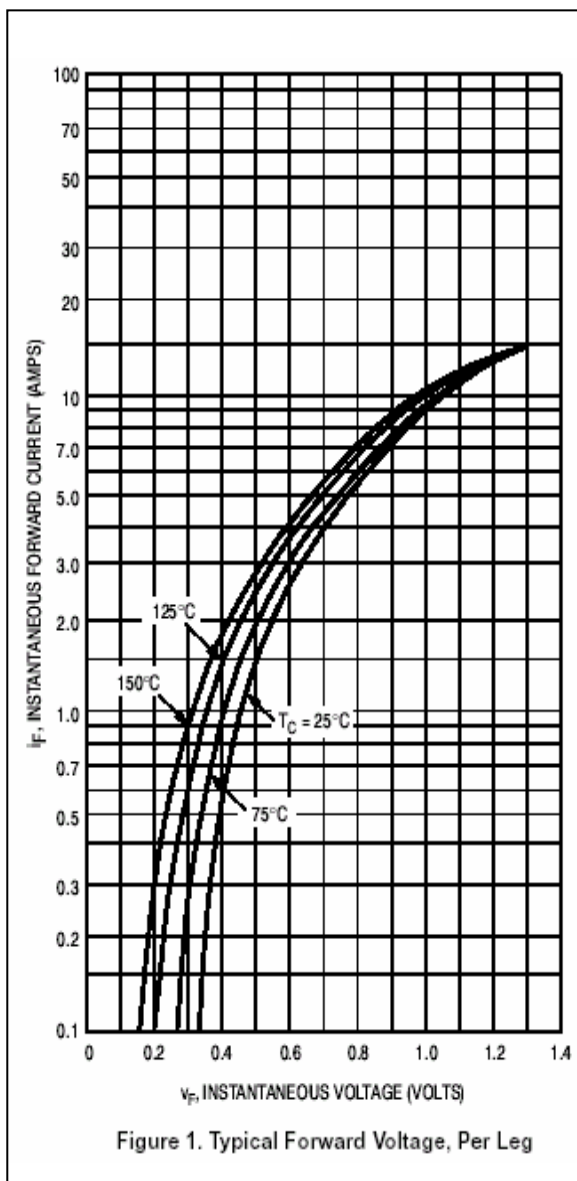


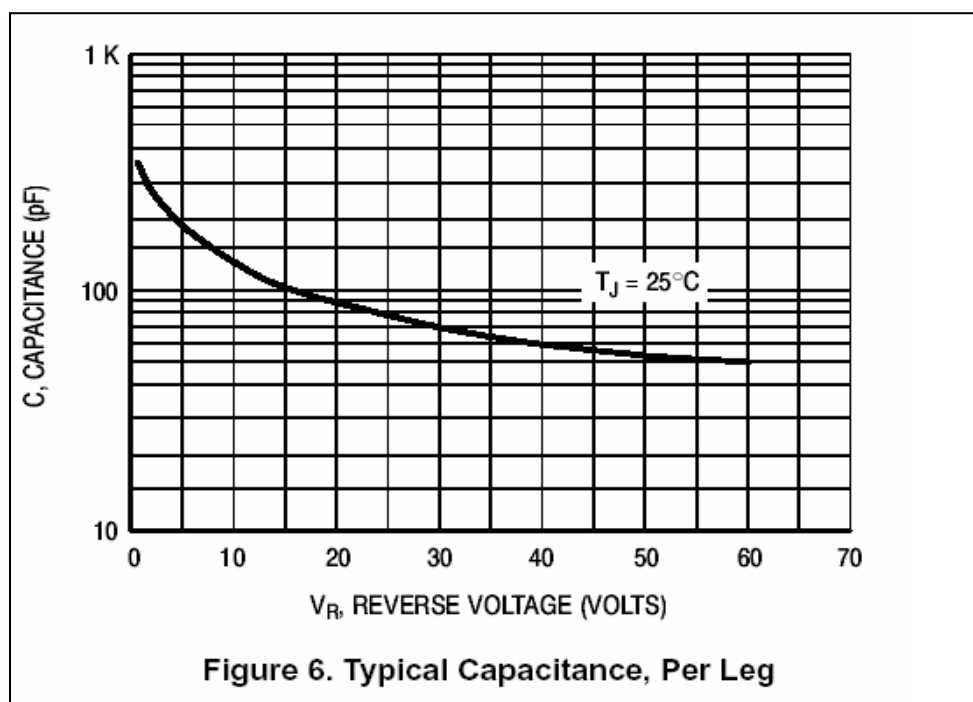
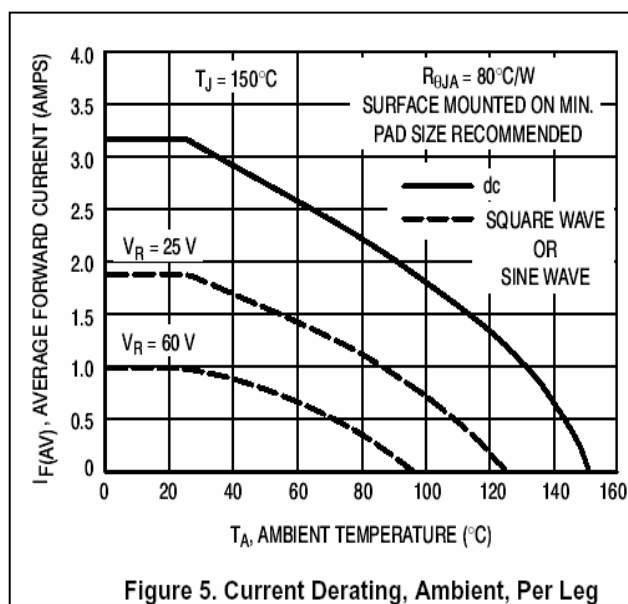
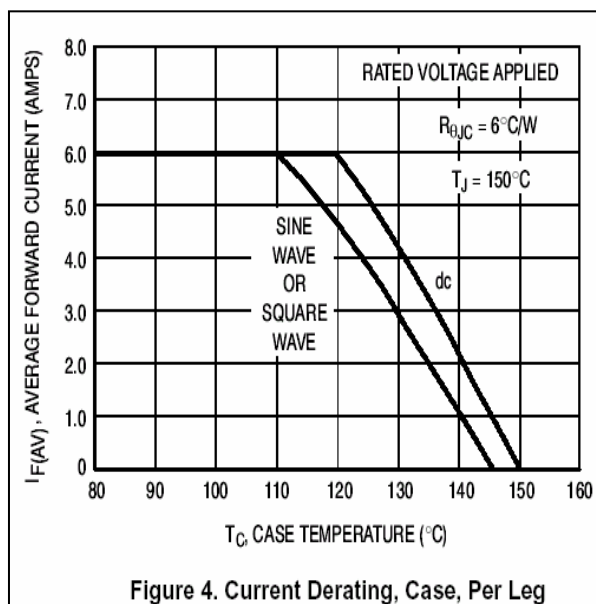
REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	6.40	6.80	G	0.50	0.70
B	5.20	5.50	H	2.20	2.40
C	6.80	7.20	J	0.45	0.55
D	2.20	2.80	K	0	0.15
E	2.30 REF.		L	0.90	1.50
F	0.70	0.90	M	5.40	5.80
S	0.60	0.90	R	0.80	1.20

Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Junction Temperature	T_j	-40~+125	°C
Storage Temperature	T_{stg}	-40~+125	°C
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	6.0	°C/W
Peak Repetitive Forward Current, $T_c = 125^{\circ}\text{C}$ (Rated V_R , Square Wave, 20 kHz) Per Diode	I_{FRM}	6	A
Reverse Leakage Current @ $T_j = 25^{\circ}\text{C}$ $V_R = 40\text{V}$	I_{RM}	0.3	mA
Reverse Leakage Current @ $T_j = 125^{\circ}\text{C}$ $V_R = 40\text{V}$		20	mA
Forward Voltage Drop @ $I_F = 3.0\text{A}$, $T_j = 25^{\circ}\text{C}$	V_{FM}	0.55	V
Forward Voltage Drop @ $I_F = 3.0\text{A}$, $T_j = 125^{\circ}\text{C}$		0.49	V
Non-Repetitive Peak Forward Surge Current 5us Single half Sine-wave superimposed on rated load	I_{FSM}	490	A
Non-Repetitive Peak Forward Surge Current 10ms Single half Sine-wave superimposed on rated load		75	A
Peak Repetitive Reverse Surge Current(2us, 1kHz)	I_{RRM}	1	A
Rectangular waveform	I_F	6	A
RMS Reverse Voltage	$V_{R(RMS)}$	40	V
Peak Repetitive Reverse Voltage	V_{RRM}	40	V

Characteristics Curve





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