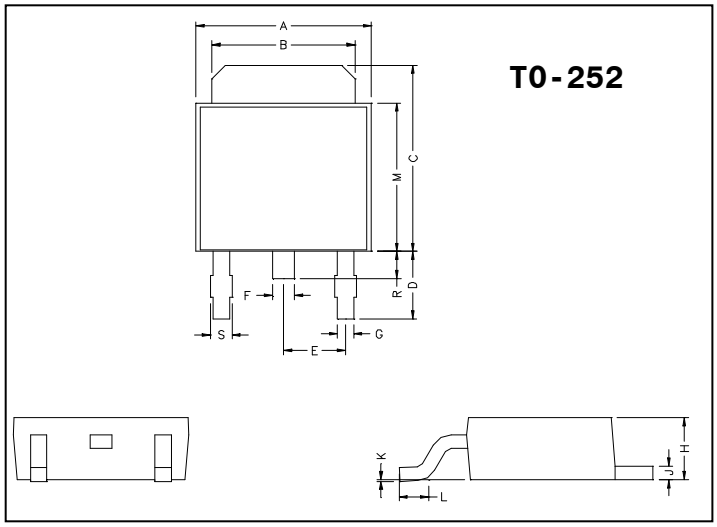
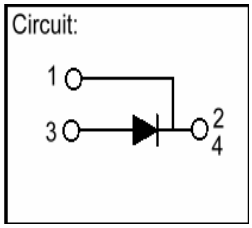
GB340

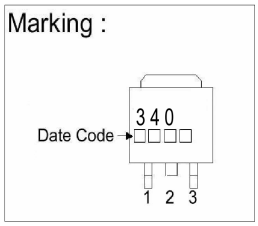
Description

The GB340 is designed for Low Voltage, High Frequency Inverter, Free Wheeling, and Polarity Protection Application.

Package Dimensions







EF.	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	0.60
D	7.20	7.80	K	0.45	0.60
E	2.30 REF.		L	0.90	1.50
F	0.60	0.90	M	5.40	5.80

Absolute Maximum Ratings

Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	-40~+125	℃
Storage Temperature	Tstg	-40~+125	℃
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	6	℃/W
Typical Thermal Resistance Junction to Ambient	C_j	189	pF
Reverse Leakage Current @ Tj = 25 ℃ VR=40V	I_{RM}	0.3	mA
Reverse Leakage Current @ Tj =125 ℃ VR=40V		20	mA
Forward Voltage Drop @ I_F = 3.0A , Tj = 25 ℃	V_{FM}	0.55	V
Forward Voltage Drop @ I_F = 3.0A , Tj = 125 ℃		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	
Rectangular waveform	I_F	3.0	A
DC Reverse Voltage	$V_{R(RMS)}$	40	V
Working Peak Reverse Voltage	V_{RWM}		V

Characteristics Curve

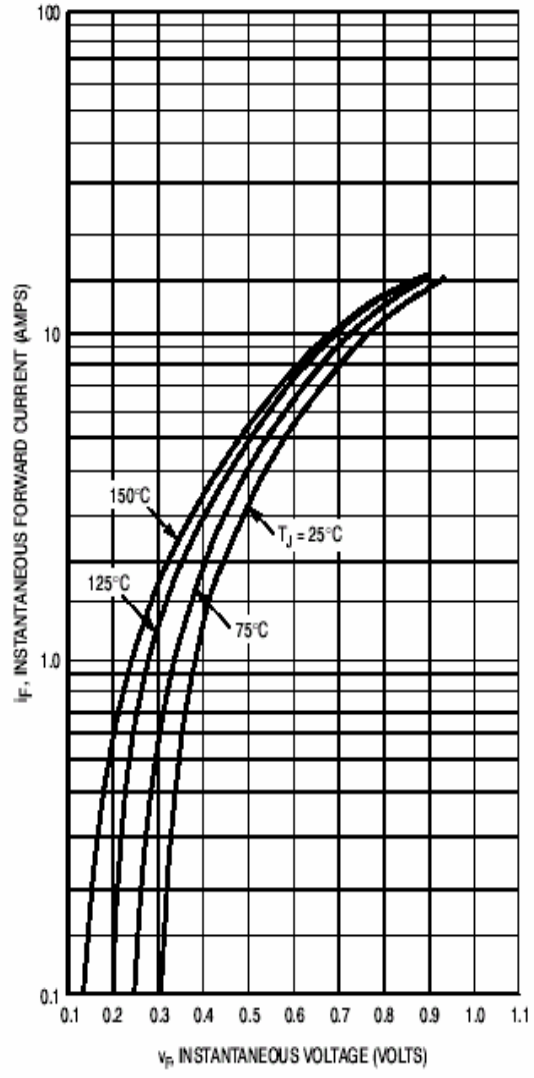
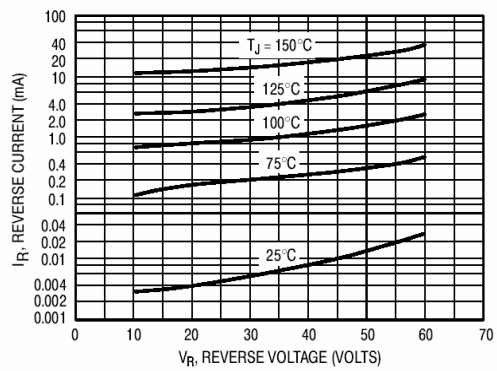


Figure 1. Typical Forward Voltage



*The curves shown are typical for the highest voltage device in the voltage grouping. Typical reverse current for lower voltage selections can be estimated from these curves if V_R is sufficient below rated V_R.

Figure 2. Typical Reverse Current

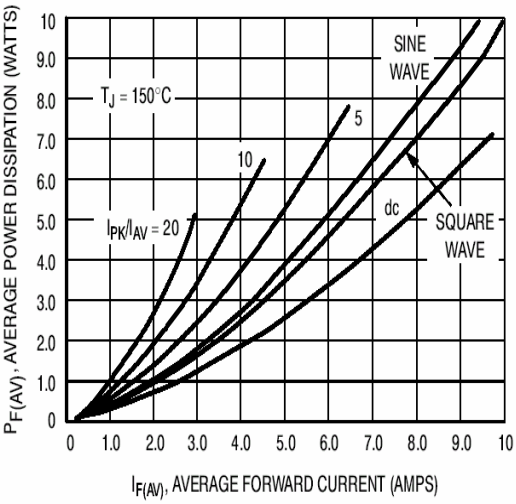


Figure 3. Average Power Dissipation

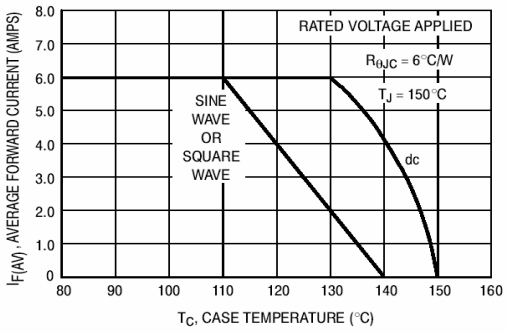


Figure 4. Current Derating, Case

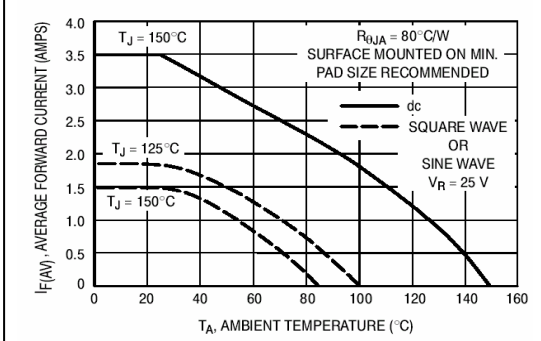


Figure 5. Current Derating, Ambient

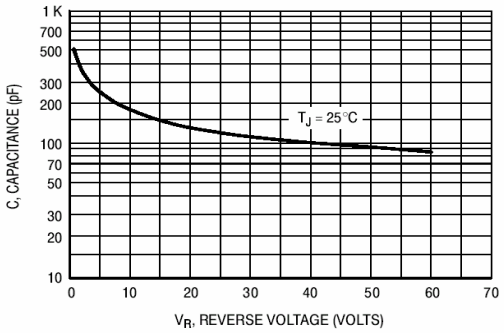


Figure 6. Typical Capacitance

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