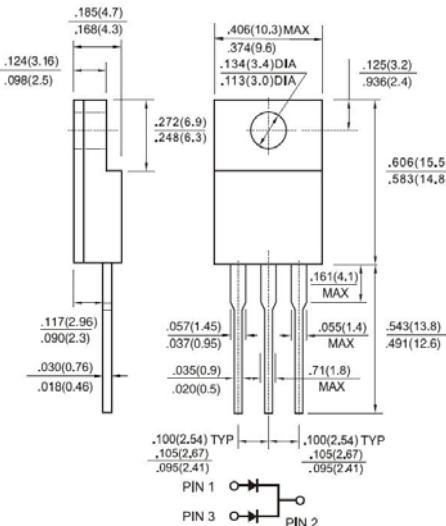

**ITO-220AB**

**Features**

- ◊ High efficiency, low VF
- ◊ High current capability
- ◊ High reliability
- ◊ High surge current capability
- ◊ Low power loss
- ◊ For use in low voltage, high frequency inverter, Freewheeling, and polarity protection application
- ◊ Green compound with suffix "G" on packing code & prefix "G" on datecode

**Mechanical Data**

- ◊ Case: ITO-220AB
- ◊ Epoxy: UL 94V-0 rate flame retardant
- ◊ Terminals: Pure tin plated, lead free, solderable per MIL-STD-202, Method 208 guaranteed
- ◊ Polarity: As marked
- ◊ High temperature soldering guaranteed: 260°C/10 seconds.
- ◊ Weight: 2.24 grams

**Maximum Ratings and Electrical Characteristics**

Rating at 25 °C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	Symbol	UGF1606G	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	400	V
Maximum RMS Voltage	$V_{RMS}$	280	V
Maximum DC Blocking Voltage	$V_{DC}$	400	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	16	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	90	A
Maximum Instantaneous Forward Voltage (Note 1) @ 8 A / $T_A=25^\circ\text{C}$	$V_F$	1.25	V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=25^\circ\text{C}$ $T_A=125^\circ\text{C}$	$I_R$	10 100	$\mu\text{A}$
Maximum Reverse Recovery Time (Note 2)	$T_{rr}$	25	nS
Typical Thermal Resistance	$R_{\theta JC}$	5	$^\circ\text{C}/\text{W}$
Operating Temperature Range	$T_J$	- 55 to + 175	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	- 55 to + 175	$^\circ\text{C}$

Note 1: Pulse Test with  $PW=300$  usec, 1% Duty Cycle

Note 2: Reverse Recovery Test Conditions:  $I_F=0.5\text{A}$ ,  $I_R=1.0\text{A}$ ,  $I_{RR}=0.25\text{A}$

**Dimensions in inches and (millimeters)**
**Marking Diagram**


- P/N = Specific Device Code
- G = Green Compound
- Y = Year
- WW = Work Week

### RATINGS AND CHARACTERISTIC CURVES (UGF1606G)

