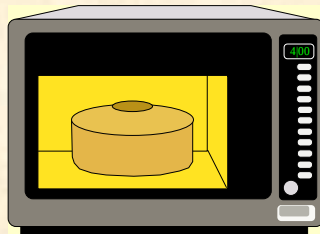
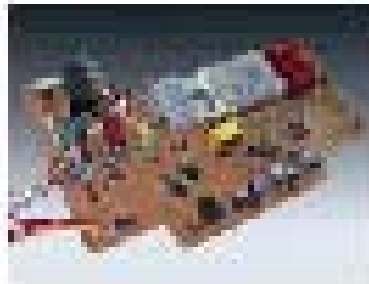


Set application example in IH & MWO

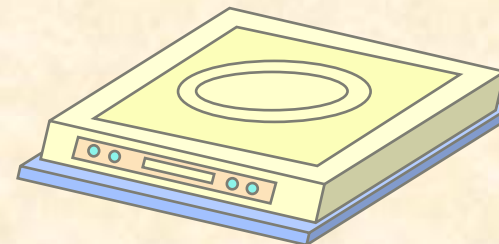
MWO



IH-Jar
(Rice Cooker)

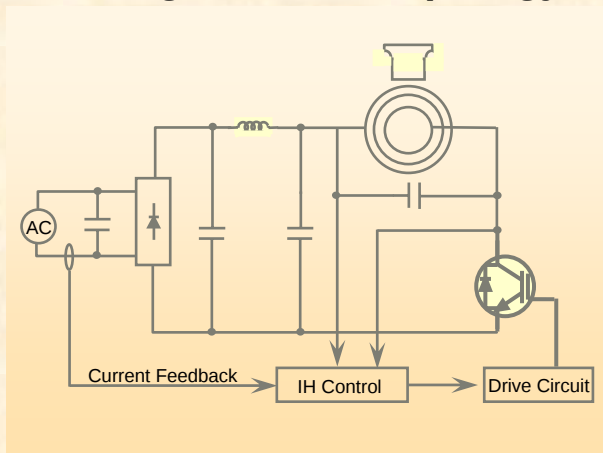


IH-Cooker

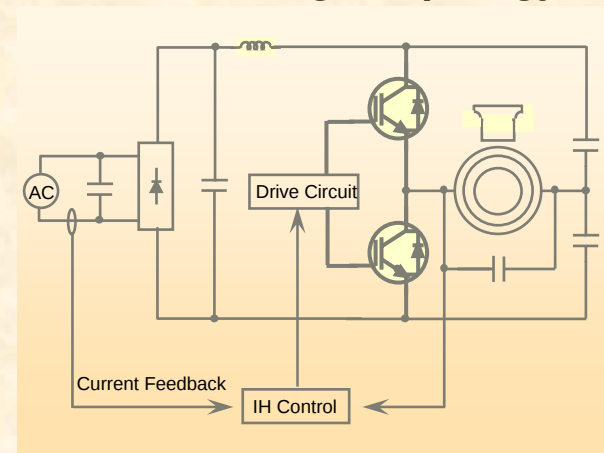


IH Jar & Cooker Topologies

Single Ended Topology



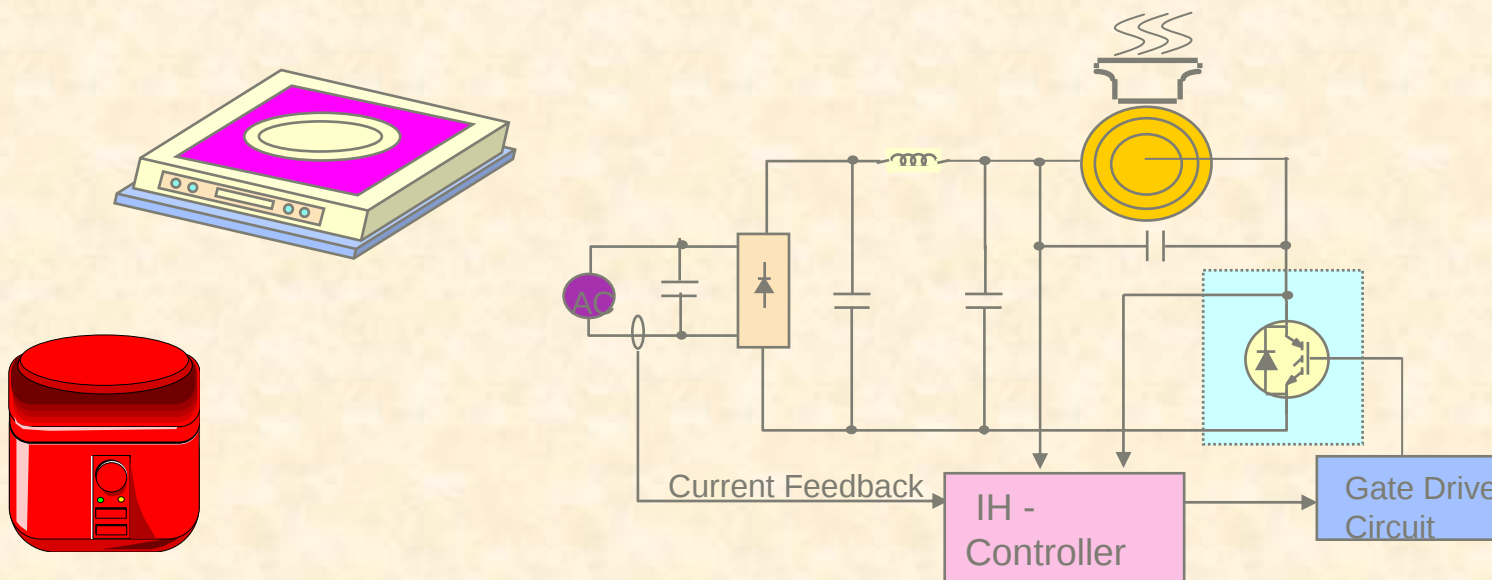
Half Bridge Topology



Voltages Available for Induction Heating Applications

BVces [V]	Vce(sat)[V] typ.	Tf[ns] typ.	Ic [A] @25°C	Built-in FRD	PKG	Structure
600	2.0	70	40 ~ 160	O	TO-3P, TO-264	Planar
900	2.0	250	60	O	TO-264	Trench
1000	2.5	130	60	O	TO-264	NPT-Trench
1200	2.4	~ 60	15 ~ 25	O	TO-3P, TO-264	NPT
1500	3.5	100	40	O	TO-264	SDB
1700	5.0	100	60	O	TO-264	SDB

IH Jar & Cooker Block Diagram



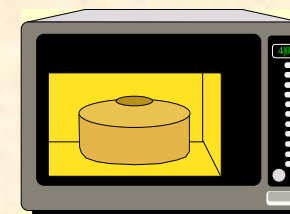
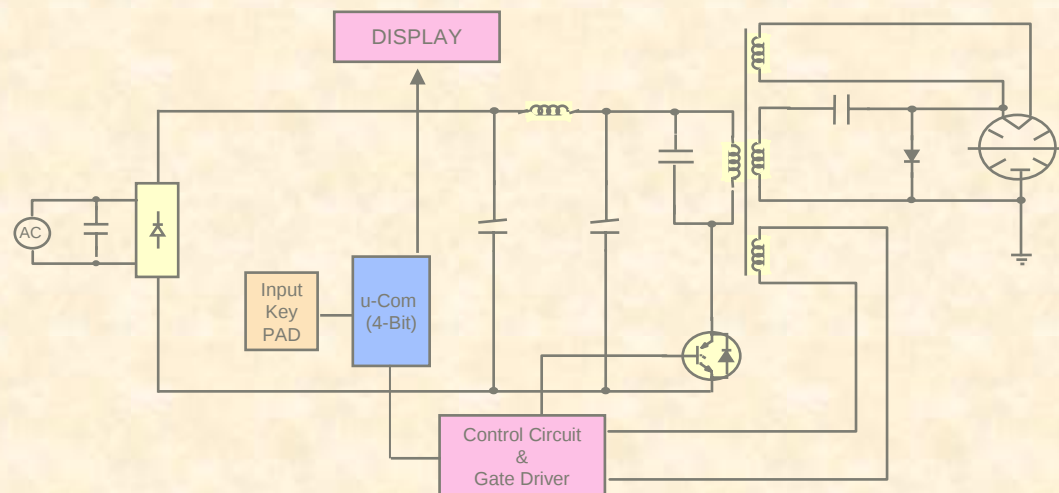
■ IGBT Solutions

Half & Full Bridge Type	FGAF40N60UFD SGH40N60UFD SGH80N60UFD SGL160N60UFD
Single Ended Type	FGL60N100BNTD FGL40N150D FGL60N170D

■ Features

- . Low Saturation Voltage
- . Simple Gate Drive
- . Wide SOA
- . IGBT With FRD

MWO (ZVS type) Block Diagram



IGBT Solutions

Half & Full Bridge Type	FGAF40N60UFD SGH40N60UFD SGH80N60UFD SGL160N60UFD
Single Ended Type	FGL60N100BNTD FGL40N150D FGL60N170D

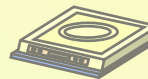
Features

- . Low Saturation Voltage
- . Simple Gate Drive
- . Wide SOA
- . IGBT With FRD

IGBT solution for Single-Ended Topology

Device	FGL60N100BNTD	FGA15N120AND	FGA25N120AND	FGL40N150D	FGL60N170D
Rating	1000V, 60A	1200V, 15A	1200V, 25A	1500V, 40A	1700V, 60A
Vce(sat)	2.5V	2.4V	2.5V	3.5V	5.0V
Tf typ.	130ns	50ns	70ns	100ns	100ns
Status	Now	Now	Now	Now	Now
PKG	TO-264	TO-3P	TO-264	TO-264	TO-264
FRD	O	O	O	O	O
	CO-PAK	CO-PAK	CO-PAK	CO-PAK	CO-PAK
Symbol					
Sys. Input	AC 110V	AC 220V	AC 220V	AC 220V	AC 220V
Remark					
IH-Jar					
IH-Cooker					
MWO					

IGBT solution for Half-Bridge Topology

Device	FGAF40N60UFD	SGH40N60UFD	SGH80N60UFD	SGL160N60UFD
Rating @ 100 deg	600V, 20A	600V, 20A	600V, 40A	600V, 80A
Vce(sat)	2.3V	2.1V	2.1V	2.1V
Tf typ.	35ns	50ns	50ns	75ns
Status	Now	Now	Now	Now
PKG	TO-3PF	TO-3P	TO-3P	TO-264
FRD	O	O	O	O
	CO-PAK	CO-PAK	CO-PAK	CO-PAK
Symbol				
IH-Jar				
IH-Cooker				
MWO				