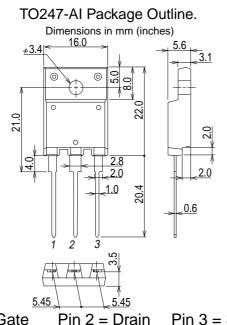
BFC40A





N-CHANNEL ENHANCEMENT MODE HIGH VOLTAGE ISOLATED POWER MOSFETS

V _{DSS}	1500V
I _{D(cont)}	2A
R _{DS(on)}	8.00Ω

Pin 1 = Gate

Pin 3 = Source

ABSOLUTE MAXIMUM RATINGS ($T_{AMB} = 25^{\circ}C$ unless otherwise stated)

V _{DSS}	Drain – Source Voltage	1500	V
I _D	Continuous Drain Current	2	А
I _{DM}	Pulsed Drain Current	4	А
V _{GS}	Gate – Source Voltage	±20	V
P _D	Total Power Dissipation	50	W
T_J , T_STG	Operating and Storage Junction Temperature Range	–55 to +150	°C

ELECTRICAL CHARACTERISTICS ($T_{AMB} = 25^{\circ}C$ unless otherwise stated)

	Characteristic	Test Conditions	Min.	Тур.	Max.	Unit
BV _{DSS}	Drain – Source Breakdown Voltage	$V_{GS} = 0V$, $I_D = 1mA$	1500			V
R _{DS(ON)}	Drain – Source On State Resistance	V _{GS} =10V , I _D = 1A		8.0	11.0	Ω
I _{DSS}	Zero Gate Voltage Drain Current	$V_{DS} = 1200V$, $V_{GS} = 0V$			100	μA
I _{GSS}	Gate – Source Leakage Current	$V_{GS} = \pm 16V$, $V_{DS} = 0V$			10	μA
V _{GS(off)}	Cutoff Voltage	$V_{DS} = 10V$, $I_{D} = 1.0mA$	2.5		3.5	V
C _{iss}	Input Capacitance	V _{DS} = 20V f = 1MHz		400		pF
C _{oss}	Output Capacitance			85		
C _{rss}	Reverse Transfer Capacitance			45		
t _{on}	Turn–on Time	$V_{GS} = 10V$ $I_D = 1A$		30		ns
t _{off}	Turn-off Time			200		
V _{SD}	Diode Forward Voltage	$V_{GS} = 0$, $I_S = 2A$		0.9	1.2	V
Y _{FS}	Forward Transfer Admittance	$V_{DS} = 20V$, $I_D = 1A$	0.7	1.5		S

Semelab Plc reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Semelab is believed to be both accurate and reliable at the time of going to press. However Semelab assumes no responsibility for any errors or omissions discovered in its use. Semelab encourages customers to verify that datasheets are current before placing orders.