

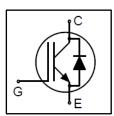


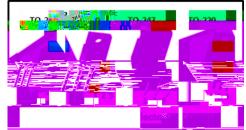
- Low V_{CE(sat)}
- Fast Switching
- High Ruggedness
- Short-Circuit Rated



Væs	600V
Ic	30A
V _{CE(sat),typ.}	1.6V (T _J =25°C)
Package	JHB30N60EE2: TO-263 JHG30N60EE2: TO-220MF JHH30N60EE2: TO-247 JHP30N60EE2: TO-220

- Motor Control
- Servo
- Home Appliances
- General Purpose Inverters





JHB30N60EE2	HB30N60EE2	TO-263	Tube
JHB30N60EE2_R	HB30N60⊞2	TO-263	Tape and reel
JHG30N60EE2	HG30N60EE2	TO-220MF	Tube
JHH30N60EE2	HH30N60EE2	TO-247	Tube
JHP30N60EE2	HP30N60⊞2	TO-220	Tube





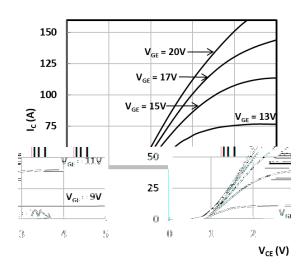
Junction-to-Ambient Thermal Resistance (TO-263, TO-220)		-	-	62	
Junction-to-Ambient Thermal Resistance (TO-220MF)	R A	-	-	65	
Junction-to-Ambient Thermal Resistance (TO-247)	-	-	40		
Junction-to-Case Thermal Resistance (TO-263, TO-247, TO-220), IGBT		-	-	0.85	°C/W
Junction-to-Case Thermal Resistance (TO-263, TO-247, TO-220), Diode	В	-	-	1.4	
Junction-to-Case Thermal Resistance (TO-220MF), IGBT		-	-	1.4	
Junction-to-Case Thermal Resistance (TO-220MF), Diode		-	-	2.4	

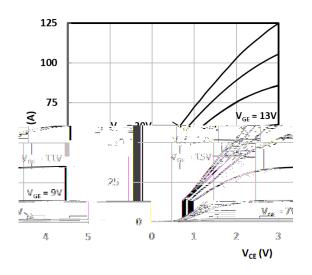
(1)

Total Gate Charge	Q_{g}	$V_{CC} = 400V$, $V_{CE} = 15V$, $I_{C} = 30A$	-	61	1	nC
Input Capacitance	G _{ss}	V~ = 25V	-	1458	-	
Output Capacitance	C _{oss}	$V_{CE} = 25V$, $V_{GE} = 0V$,	-	98		pF
Reverse Transfer Capacitance	C₁₅s	f = 1MHz	-	30	-	

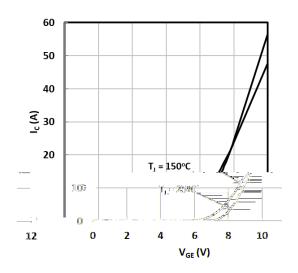




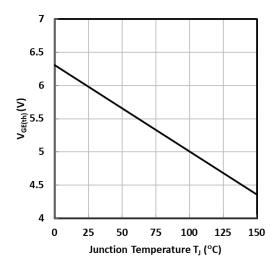




$$(T_J = 25 \, ^{\circ}\text{C}, t_p = 250 \, \mu\text{s})$$



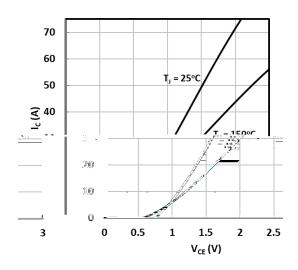
$$(T_J = 150 \,{}^{\circ}\text{C}, t_p = 250 \,\mu\text{s})$$

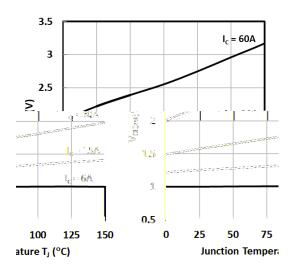


$$(V_{CE} = 10 \text{ V}, t_p = 250 \text{ }\mu\text{s})$$

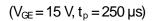
$$(V_{CE} = V_{GE}, I_{C} = 250 \mu A)$$

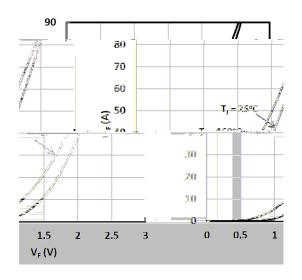


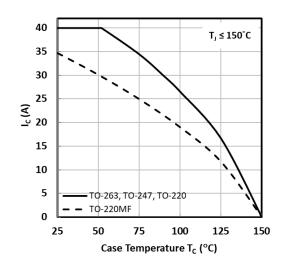




$$(V_{GE} = 15 \text{ V}, t_p = 250 \mu\text{s})$$



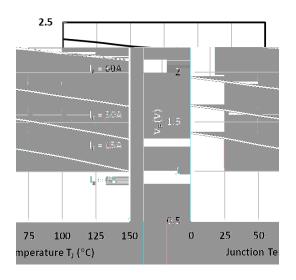


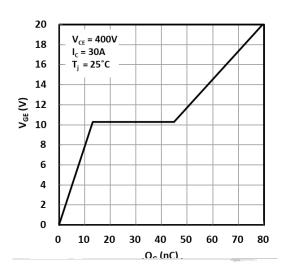


$$(V_{GE} = 0 \text{ V}, t_p = 250 \mu\text{s})$$

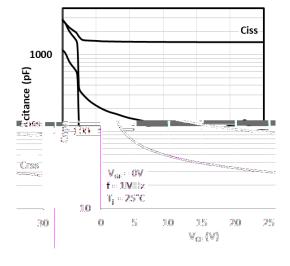
(I_C limited by bonding wire)



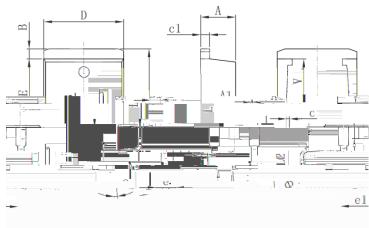




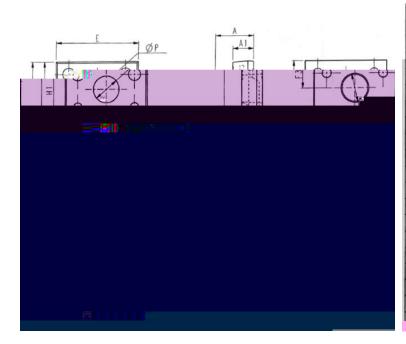
$$(V_{GE} = 0 \text{ V}, t_p = 250 \mu\text{s})$$





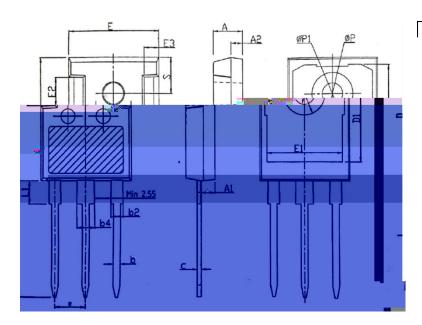


Symb	ما	Dimer	In Millimete	rs	
Syllib	OI .	Min	. =	Max.	=
Α		4.47	0 —	4.670	_
A1		0.00	ი —	ი <u>15</u> ე	-
420 11 84	Ш	B*	1.	120	1.
910		b::	0.	710	0.
<u> </u>	′1.1 // €C	967±" '	"1. 870	27 T	<u>01</u>
	0=3:10	7	0:530:		C÷.
	1 1170	بنسوخ	1.370	####	61 T
	10:01) ====	10.310		D.S
	8=500	=	8.900		E
		2.540 TYP)=		e≔
	4.980		5≌18.0		e:1_
	14.94)	15:500) 	ı II
	4.950		5.450		L
	2=340	-	2.740		L2:
	1.300		1.700		L3=
	0==		8==		Ф
V		7775.6U	Ú (- :		VIV Inv-

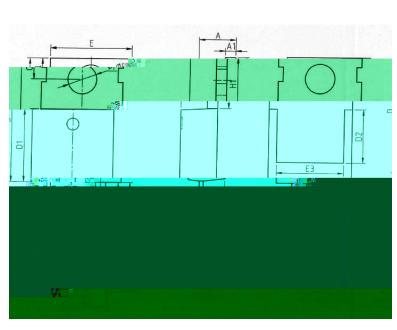


CVMDAT	MM				
SYMBOL	MIN	NOM	MAX		
E	9.96	10.16	10.36		
Á'	4. 50	4.70	4.90		
A1	2. 34	2.54	2.74		
A2	0.30	0.45	0.60		
A4	2. 56	2.76	2.96		
С	0.40	0.50	0.65		
c1	1. 20	1.30	1.35		
D	15. 57	15. 87	16. 17		
H1	6. 70REF				
е	2. 54BSC				
L	12.68	12.98	13. 28		
L1	3. 03	3. 23	3. 43		
ФΡ	3. 03	3.18	3. 38		
ФР3	3. 15	3. 45	3. 65		
F3	3. 15	3. 30	3. 45		
G3	1. 25	1.35	1.55		
bl	1.18	1.28	1.43		
h2	0.70	A 30 - 8			





Symbol Dimension (mm)



Dimension (mm)							
	Symbol lax	- H	1112113	JVII		٦	yp.
		Λ:	5. ii	190.00	37		57
+	.70		-		_		_
	.40	-	Lithin"		25	1 1	.30
2	.60	A	200777	2.7	20 🖘	2	.40
J.8C3	₹00.95	<u> </u>	ກ	٠.	0.70	- 2	40
1.27	1\1.47	E	∥ b2	. E	1.17		11
0:50 ==	⊪ı ı0.60	<u> </u>	. C:		0.45	(1) (1)	99
15.60	16.10		D ∰	4	15.10)	_ 1
9-10	ы 19:40	₹"	[∥] D1■		8.80		
			D2	13-	5,50		
0.00	10.30		E		9.70	14	1
3-6			_E3		7.00		
54BSC			е				2=
D8BSC			e1	-			5.
6.50	6.85		H1		6.25		
3-50	13:80		(i)		12.75		
1 = 3.4			-	3.1	С.		
⊒ ⊒ 3.80 ⊒					C		
3.0	Q-	-	2.60)	2.8	0	



1.00	Initial Release.	22-Jun-20
1.01	Thermal specification and package updates.	24-Jun-20



Information in this document is believed to be accurate and reliable. However, JSAB Technologies does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information.

JSAB Technologies reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

JSAB Technologies products are not designed, authorized or warranted to be suitable for use in medical, military, aircraft, space or life support equipment, nor in applications where failure or malfunction of an JSAB Technologies product can reasonably be expected to result in personal injury, death or severe property or environmental damage. JSAB Technologies accepts no liability for inclusion and/or use of JSAB

Applications that are described herein for any of these products are for illustrative purposes only. JSAB Technologies makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

Stress above one or more limiting values may cause permanent damage to the device. Limiting values are stress ratings only and operation of the device at these or any other conditions above those given in the Characteristics sections of this document is not implied. Exposure to limiting values for extended periods may affect device reliability.

JSAB

commercial sale, including those pertaining to warranty, intellectual property rights infringement and limitation of liability, unless explicitly otherwise agreed to in writing by JSAB Technologies. In case of any inconsistency or conflict between information in this document and such terms and conditions, the latter will prevail.

Nothing in this document may be interpreted or construed as an offer to sell products that is open for acceptance or the grant, conveyance or implication of any license under any copyrights, patents or other industrial or intellectual property rights.

This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from national authorities.

The Quick reference data is an extract of the product data given in the Limiting values and Characteristics sections of this document, and as such is not complete, exhaustive or legally binding.