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2. Equivalent Circuit

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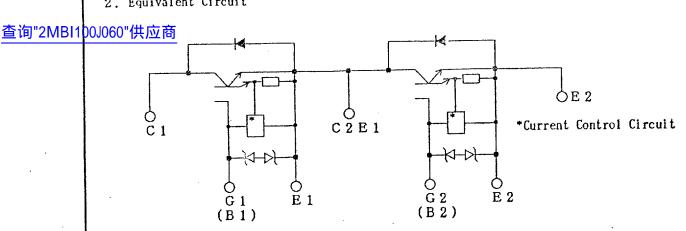
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(Tj=25 °C) 3. Absolute Maximum Ratings

Units Symbols Ratings Items V 600 Collector-emitter voltage VCES ٧ ± 20 VGES Gate -emitter voltage 100 I c Continuous 200 I c pulse Collector 1 ms А 100 -Ic current 200 -Ic pulse 1 ms W 300 РC Max.power dissipation **°**C Тj +150Operating temperature •C Tstg -40 ~ +125 Storage temperature V AC 2500 (1 min) Vis' Isolation voltage 3. 5 * 1 Mounting $N \cdot m$ Screw Torque 3.5 * 1 Terminals $2.5 \sim 3.5 \text{ N} \cdot \text{m}$ (M5) Note : *1 Recommendable Value :

	\square	DATE	NAME	APPROVED	Fuji Electric Co.,Ltd.
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REVISIONS					

查询"2MBI 00J0	60 "供应资	characteris		racteris	=25°C un tics	Condi t	iong	Units
	100 HH Multers	Symbols	min.	typ.	max.	Longit	IONS	UIIILS
	Zero gate voltage				1.0		V _{GE} = OV V _{CE}	mA
	collector current	Ices				Tj=125°C	= 600V	mA
	Gate-emitter leakage current	Iges			15	$V_{CE} = 0$ $V_{GE} = \pm$		μA
	Gate-emitter threshold voltage	Vge (th)	3.5	5.0	6.5	$V_{CE} = 2$ $I_{C} = 1$		v
	Collector-emitter saturation voltage	Vce (sat)		1.7	2.5	V _{GE} =1 I _c =1		V
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operty c ed.copier use of an es withou	5. Dynamic ratings	(at Tj=25	C unless	: otherwi	se spec	ified)		
n herein neither atsovere Fuji Elec	Itens	Symbols	min.	typ.	max.			
formatio shall be way wh isent of	Input capacitance	Cies		6400		$V_{GE} = 0$		
nd the in Ltd They ad in any isten co	Output capacitance	Coes				$V_{CE} = 1$	L O V	p F
t material ar Electric Co. t or disc Co. d partynor express wu	Reverse transfer capacitance	Cres				f = 1 M	llz	
This lent the	Turn-on time	ton		0.6	1.2	$ V_{cc} = 300V I_{c} = 100A V_{GE} = \pm 15V $		μs
		tr		0.2	0.6			
	Turn-off time	toff		0.8	1.5	R = 2	24Ω	
		tf		0.15	0.35			<u> </u>
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6. Characteristics of reverse diode (at Tj=25°C unless otherwise specified)

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	Items	Symbols	min.	typ.	max.	Conditions	onits
	Diode forward on-voltage	VF		2.3	3.0	$1 F = 100A$ $V_{GE} = 0V$	v
	Reverse recovery time	trr			300	$I F = 100A$ $-di/dt = 300A/\mu s$	ns

7. Thermal resistance characteristics

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Items Symbols min. typ. max. Conditions Outling Thermal R th(j-c) 0.417 IGBT Thermal R th(j-c) 0.800 Diode C /W Thermal R th(j-c) 0.800 Diode C /W With thermal compound. R th(c-f) 0.005 the base to cooling fin With thermal compound. With thermal compound. Fuji Electric Co,Ltd.					Cha	racteris	stics	Contractor	Units
DATE NAME APPROVED DRAWN CHECKED HI I Electric Co.,Ltd. BRAWN 5F4906 HI I		Items		Symbols	min.	typ.	Bax.	Conditions	Units
DATE NAME APPROVED DRAWN CHECKED	rrty of copied, of any vithout			Rth(j-c)			0.417	IGBT	
DATE NAME APPROVED DRAWN CHECKED	e prope duced, t the use poses v Co. Ltd.		-	Rth(j-c)			0.800	Diode	
DATE NAME APPROVED DRAWN CHECKED Fuji Electric Co.,Ltd.	i herein is th neither repro atsoever for facturing pur Fuji Electric (resistar		∦ Rth(c-f)		0.05			
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