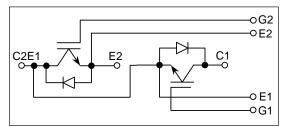
[Rated 100A/1200V, Dual-pack type]

FEATURES

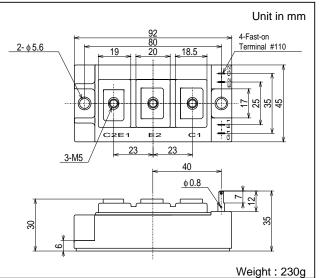
- Low saturation voltage and high speed.
- Low turn-OFF switching loss.
- Low noise due to built-in free-wheeling diode. (Ultra Soft and Fast recovery Diode (USFD))
- High reliability structure.
- Isolated heat sink (terminals to base).

CIRCUIT DIAGRAM



2E0





IMUM RATINGS	(10-200)				
Item		Unit	Value		
Collector-Emitter Voltage		V	1200		
Gate-Emitter Voltage		V	±20		
DC	lc	٨	100		
1ms	I _{CP}	A	200		
DC	l _F	٨	100 *1		
1ms	I _{FM}	A	200		
Collector Power Dissipation		W	690		
Junction Temperature		°C	-40 ~ +150		
Storage Temperature		°C	-40 ~ +125		
Isolation Voltage		V _{RMS}	2500(AC 1 minute)		
Terminals		Nm	1.96 *2		
Mounting	—	11.111	1.96 *3		
	em age DC 1ms DC 1ms pation Terminals	Symbol age V _{CES} VGES VGES DC Ic 1ms I _{CP} DC IF 1ms IFM pation Pc Tstg Viso Terminals — Mounting —	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		

Notes; *1 : RMS current of diode ≤ 30 Arms

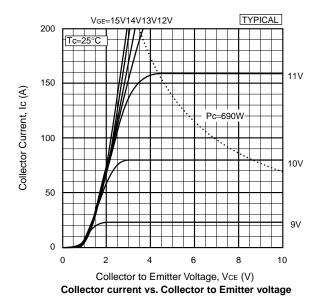
*2, *3: Recommended value 1.67 N·m

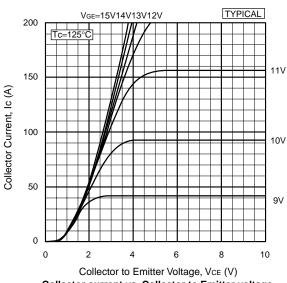
CHARACTERISTICS (T_c=25°C)

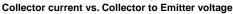
Item	1	Symbol	Unit	Min.	Тур.	Max.	Test Conditions
Collector-Emitter Cut	-Off Current	I _{CES}	mA	I	I	1.0	V _{CE} =1200V, V _{GE} =0V
Gate-Emitter Leakage	e Current	I _{GES}	nA	-	-	±500	$V_{GE}=\pm 20V, V_{CE}=0V$
Collector-Emitter Sat	uration Voltage	V _{CE(sat)}	V	-	2.2	2.8	I _C =100A, V _{GE} =15V
Gate-Emitter Thresho	old Voltage	V _{GE(TO)}	V	-	-	10	V _{CE} =5V, I _C =100mA
Input Capacitance		Cies	pF	_	9000	_	V _{CE} =10V, V _{GE} =0V, f=1MHz
Switching Times	Rise Time	tr	μs	-	0.15	0.3	$V_{CC}=600V$, $I_C=100A$ $R_G=12\Omega$ $V_{GE}=\pm15V$ Inductive Load
	Turn-On Time	t _{on}		_	0.3	0.6	
	Fall Time	t _f		_	0.1	0.3	
	Turn-Off Time	t _{off}		_	0.5	1.0	
Reverse Recovery Time		t _{rr}	μS	_	0.2	0.4	I _F =100A
Peak Forward Voltage Drop		V _{FM}	V	_	2.5	3.5	I _F =100A, V _{GE} =0V
Thermal Impedance	IGBT	R _{th(j-c)}	°C/W	-	-	0.18	Junction to case
	FWD	R _{th(j-c)}				0.4	

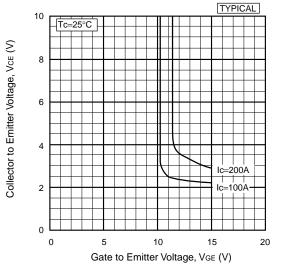
Notes; *4 : R_G value is the test condition's value for decision of the switching times, not recommended value, please determine the suitable R_G value after the measurement of switching waveforms (overshoot voltage, etc.) with appliance mounted. Remark; For actual application, please confirm this spec.sheet is the newest revision.

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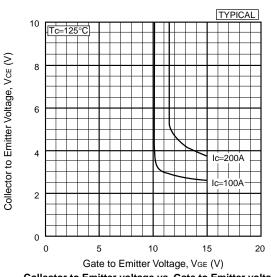




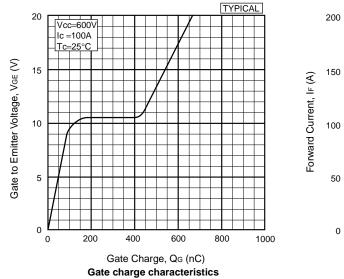


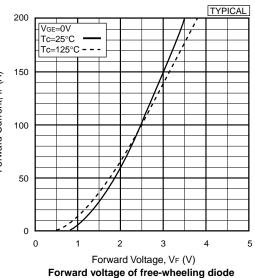




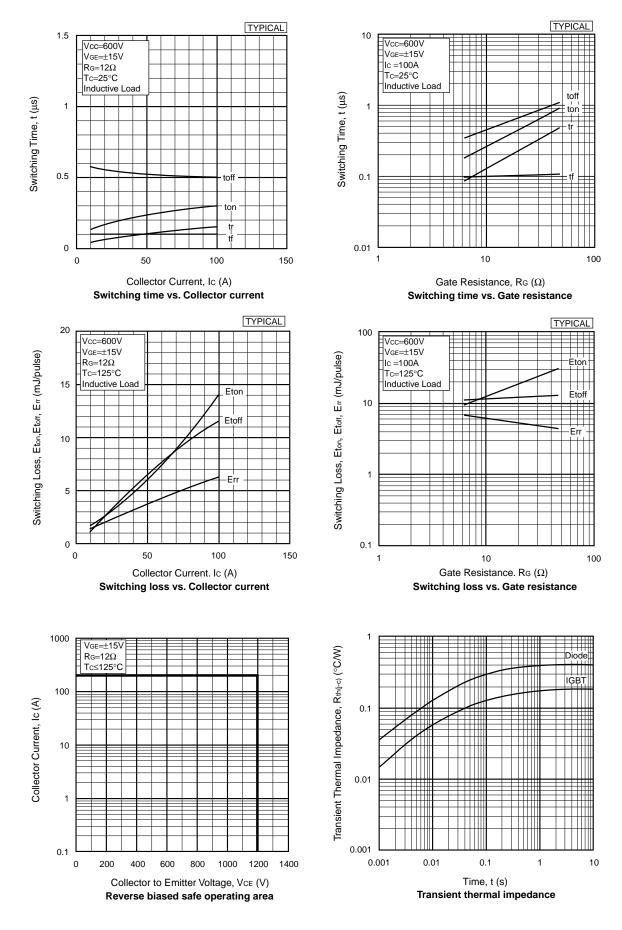








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