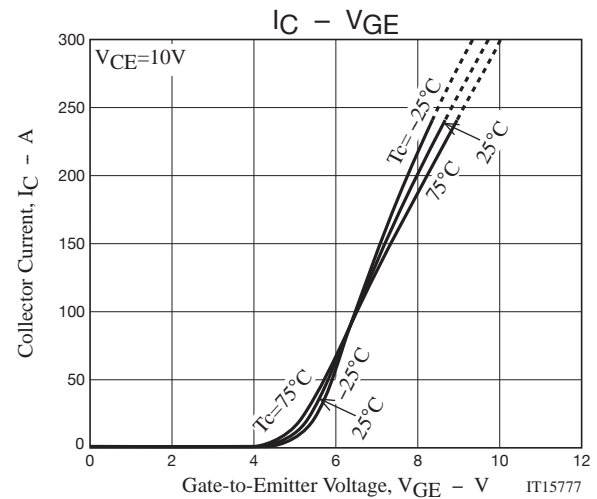
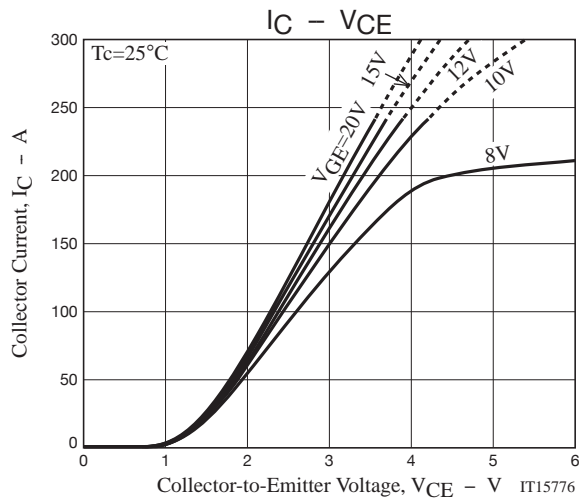
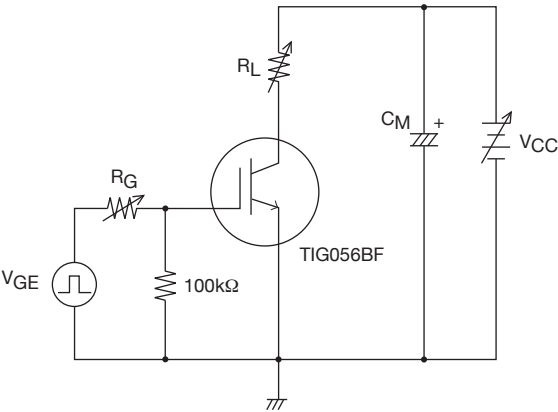


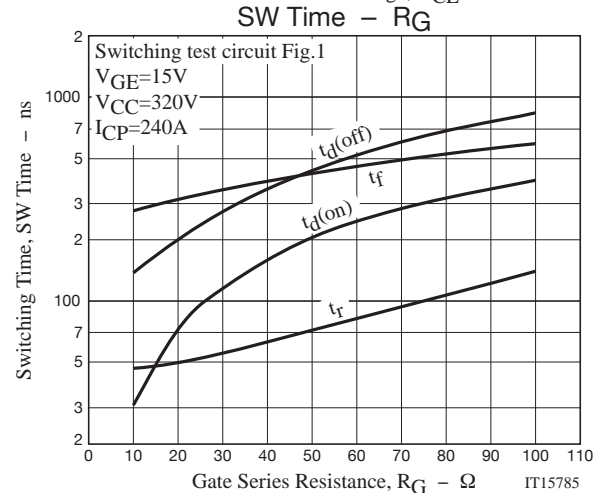
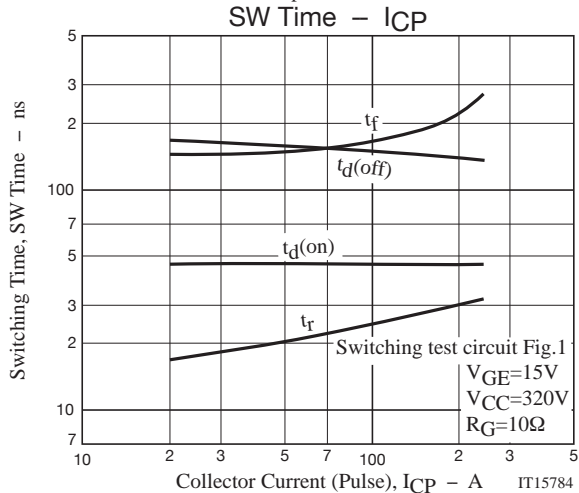
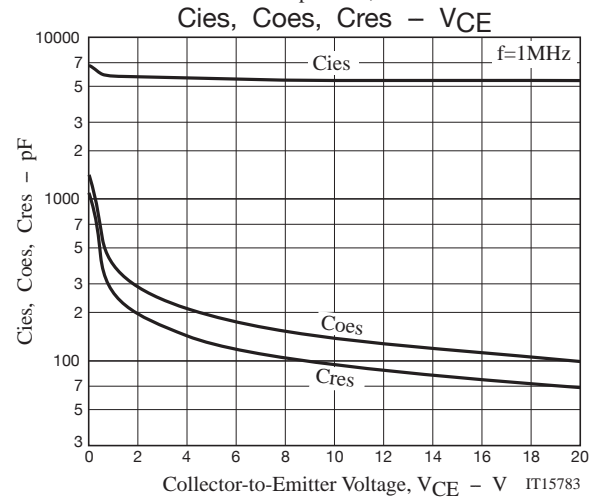
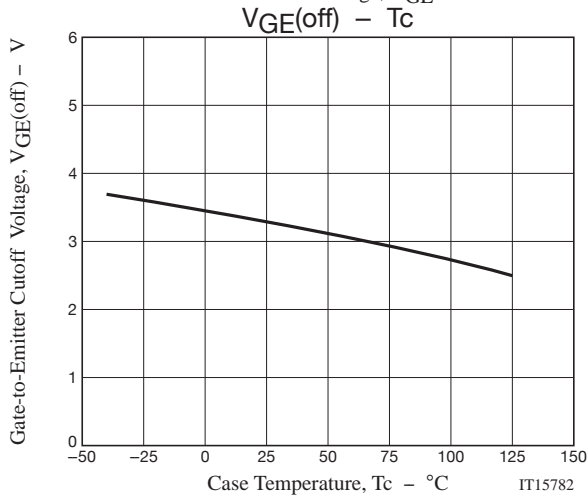
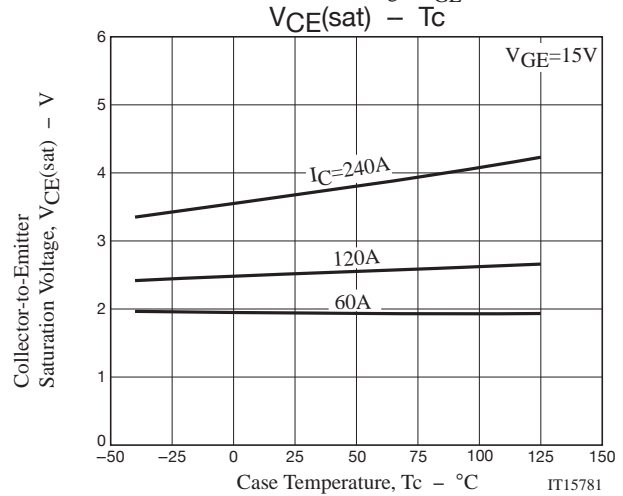
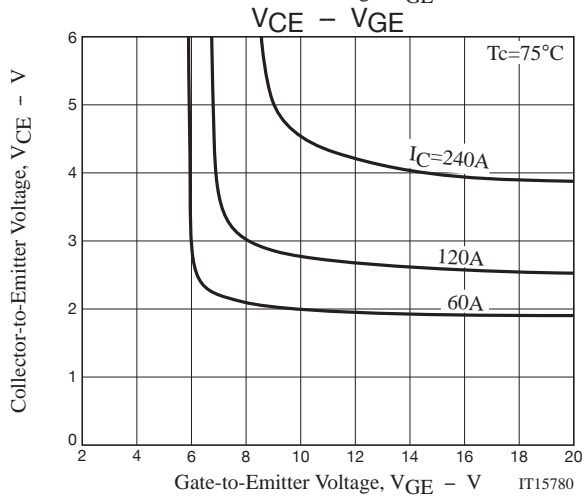
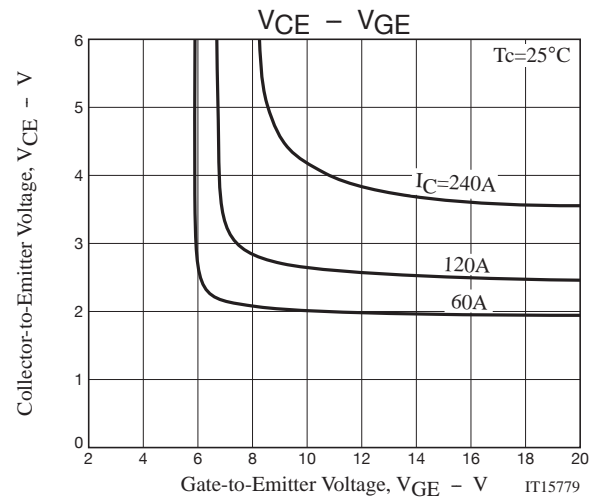
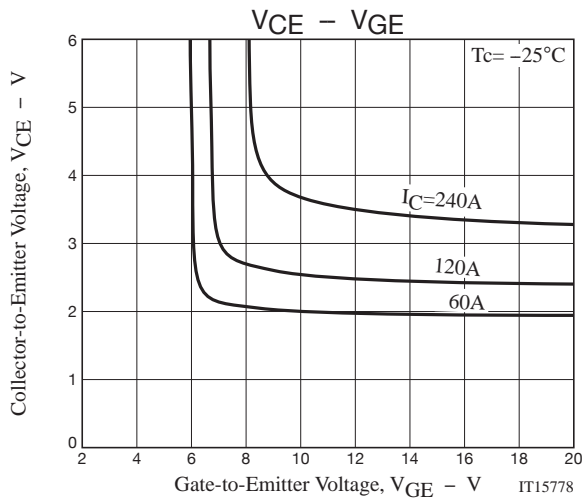
TIG056BF

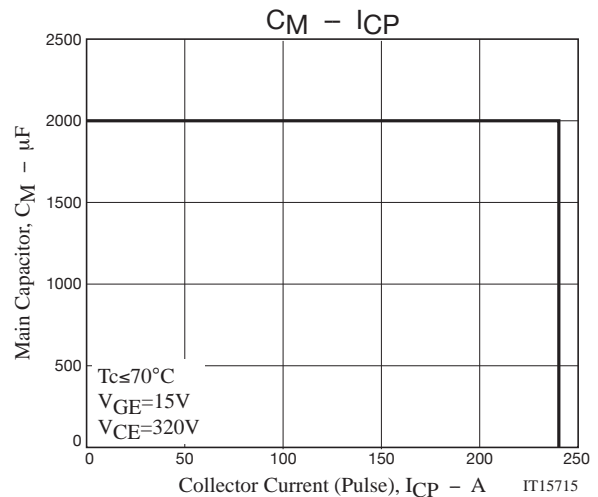
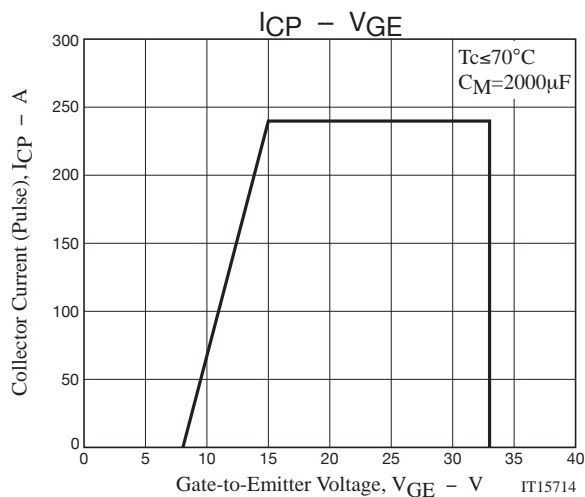
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CES}$	$I_C=2mA, V_{GE}=0V$	400			V
Collector-to-Emitter Cutoff Current	I_{CES}	$V_{CE}=320V, V_{GE}=0V$			100	μA
Gate-to-Emitter Leakage Current	I_{GES}	$V_{GE}=\pm 30V, V_{CE}=0V$			± 10	μA
Gate-to-Emitter Threshold Voltage	$V_{GE(off)}$	$V_{CE}=10V, I_C=1mA$	2.5		5.0	V
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=240A, V_{GE}=15V$		3.6	5.0	V
Input Capacitance	C_{ies}	$V_{CE}=20V, f=1MHz$		5500		pF
Output Capacitance	C_{oes}			100		pF
Reverse Transfer Capacitance	C_{res}			70		pF
Turn-ON Delay Time	$t_{d(on)}$	$V_{CE}=320V, I_C=240A, V_{GE}=15V, R_G=10\Omega$		46		ns
Rise Time	t_r			32		ns
Turn-OFF Delay Time	$t_{d(off)}$			140		ns
Fall Time	t_f			270		ns

Fig1 Large Current R Load Switching Circuit







Note : TIG056BF has protection diode between gate and emitter but handling it requires sufficient care to be taken.

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