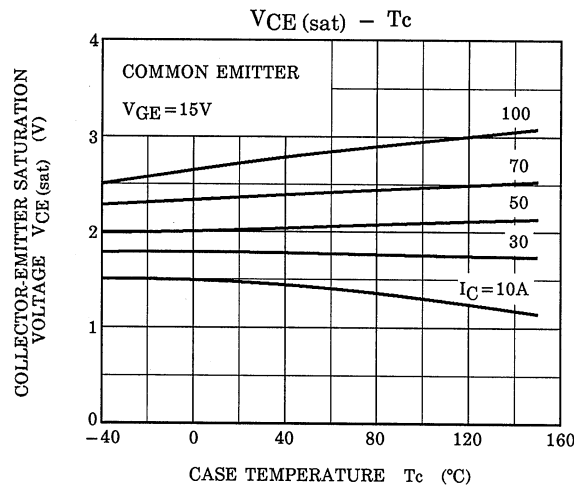
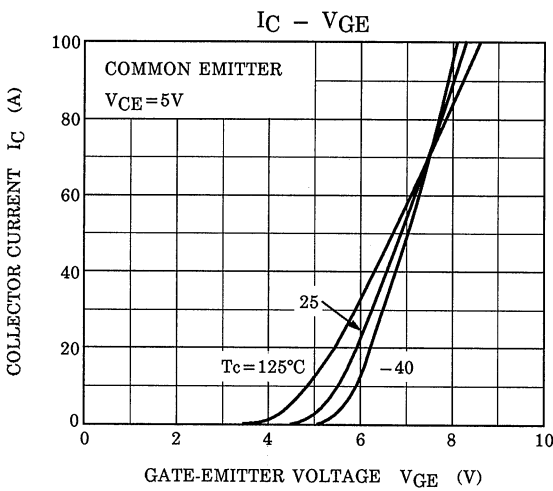
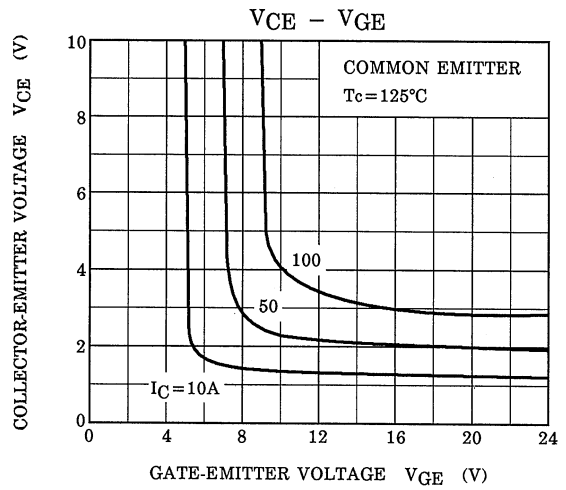
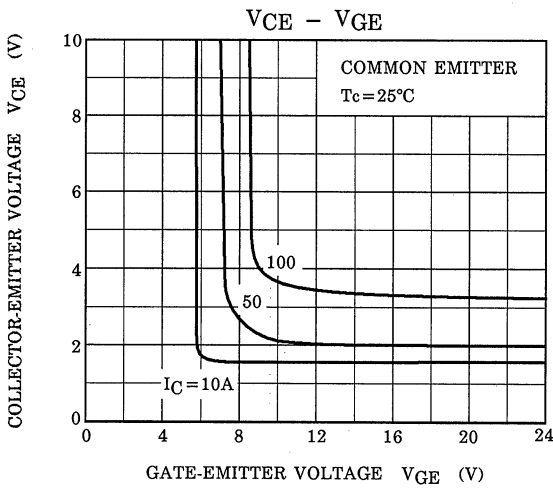
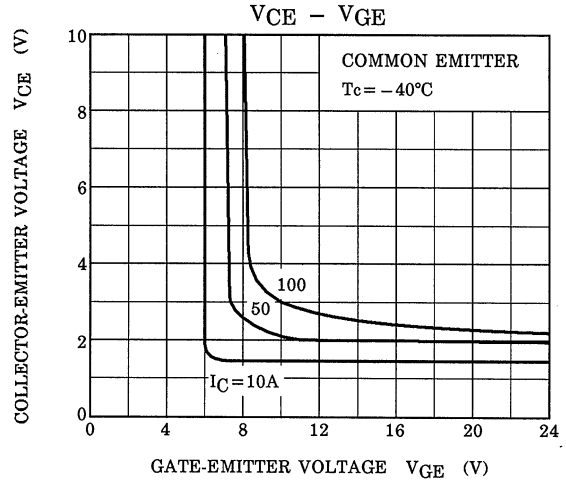
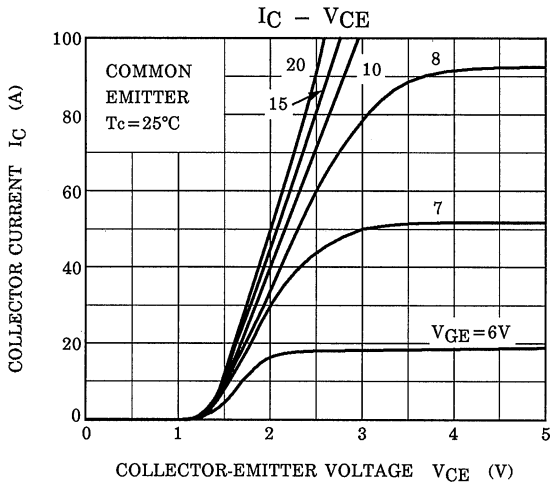
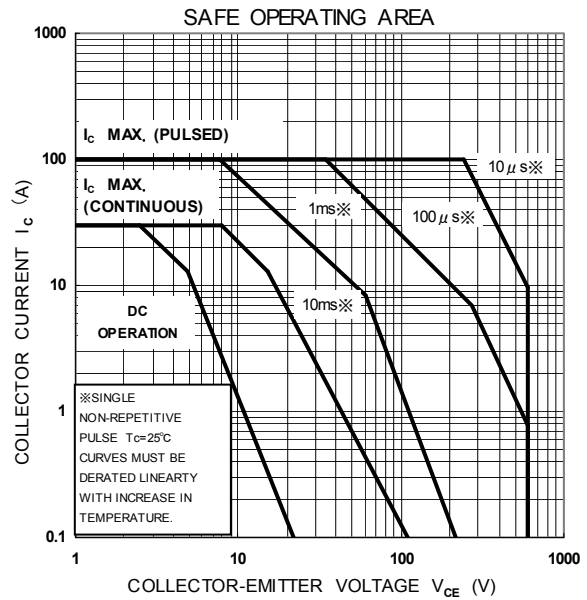
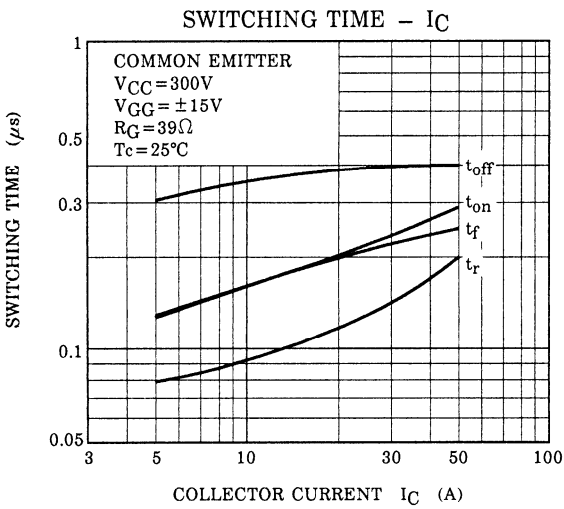
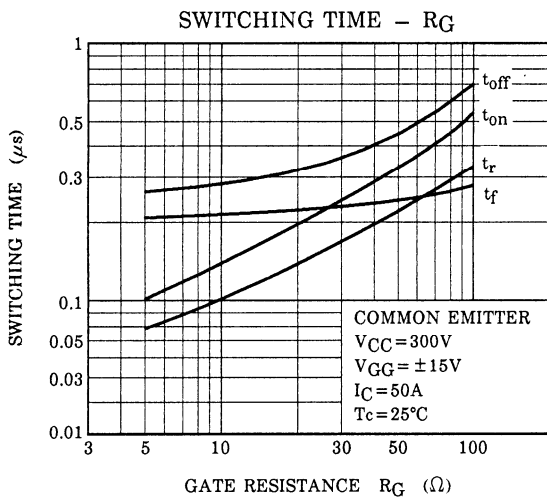
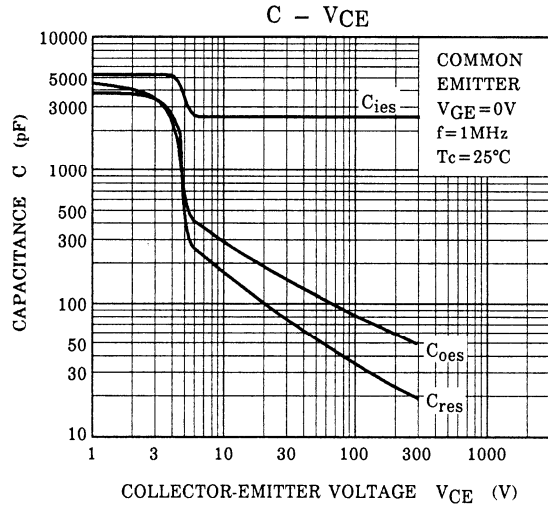
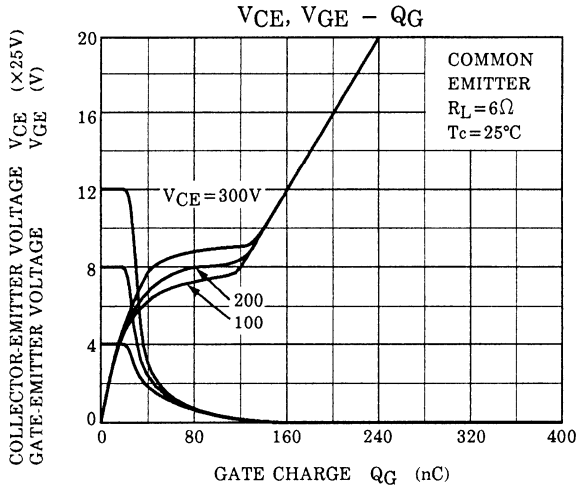
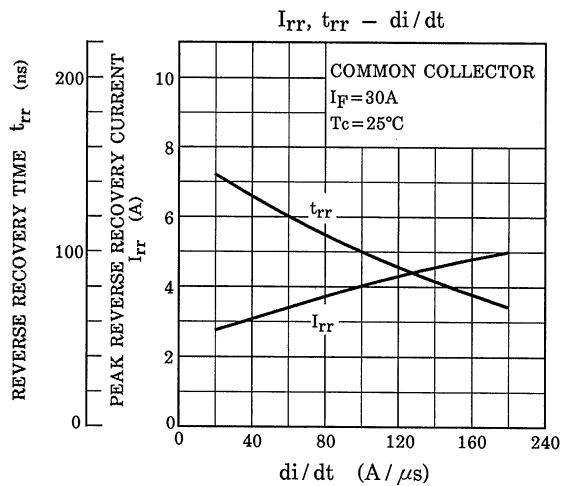
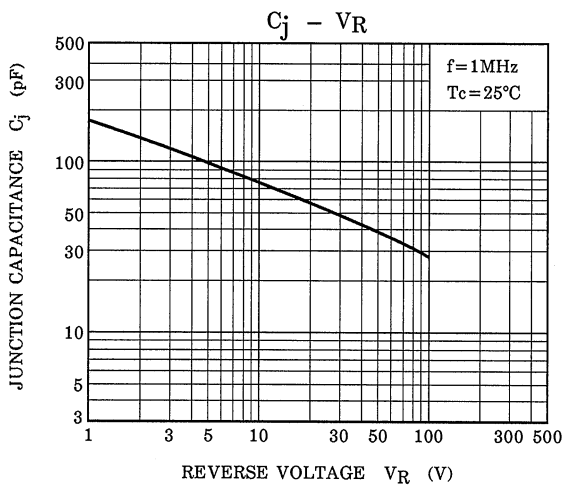
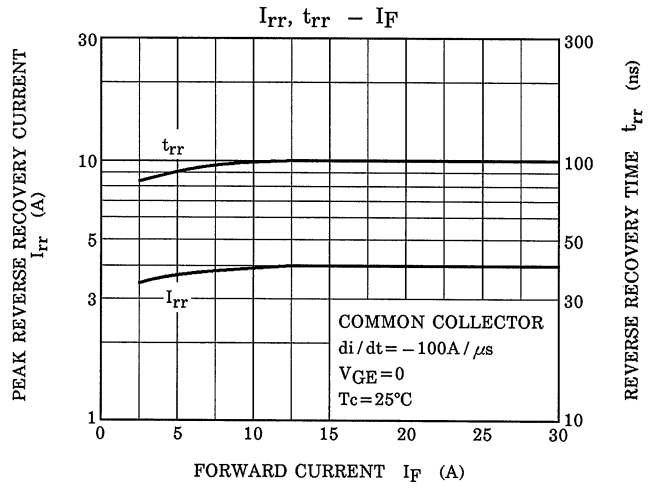
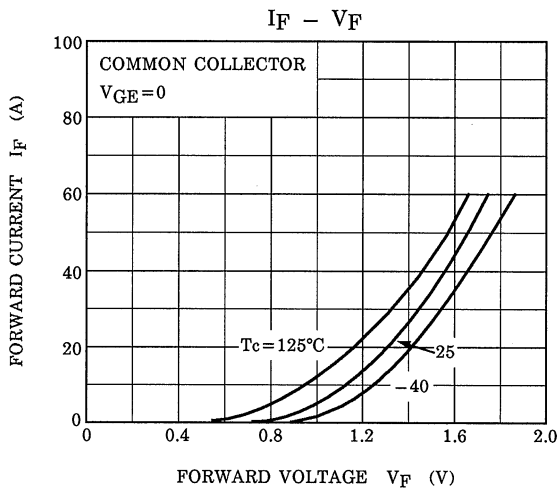
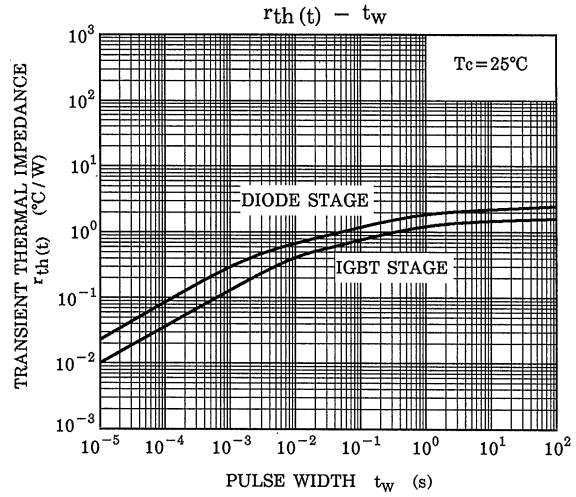
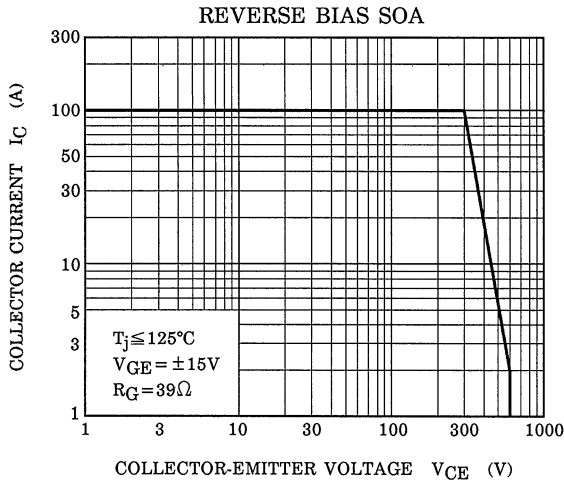


ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN	TYP.	MAX	UNIT
Gate Leakage Current		I_{GES}	$V_{GE} = \pm 20V, V_{CE} = 0$	—	—	± 500	nA
Collector Cut-Off Current		I_{CES}	$V_{CE} = 600V, V_{GE} = 0$	—	—	1.0	mA
Gate-Emitter Cut-Off Voltage		$V_{GE (OFF)}$	$I_C = 50mA, V_{CE} = 5V$	3.0	—	6.0	V
Collector-Emitter Saturation Voltage		$V_{CE (sat)}$	$I_C = 50A, V_{GE} = 15V$	—	2.1	2.8	V
Input Capacitance		C_{ies}	$V_{CE} = 10V, V_{GE} = 0, f = 1MHz$	—	2500	—	pF
Switching Time	Rise Time	t_r		—	0.20	—	μs
	Turn-On Time	t_{on}		—	0.30	—	
	Fall Time	t_f		—	0.25	0.40	
	Turn-Off Time	t_{off}		—	0.40	—	
Peak Forward Voltage		V_F	$I_F = 30A, V_{GE} = 0$	—	—	2.0	V
Reverse Recovery Time		t_{rr}	$I_F = 30A, V_{GE} = 0$ $di / dt = -100A / \mu s$	—	—	0.2	μs
Thermal Resistance (IGBT)		$R_{th (j-c)}$		—	—	1.67	°C / W
Thermal Resistance (Diode)		$R_{th (j-c)}$		—	—	2.27	°C / W







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