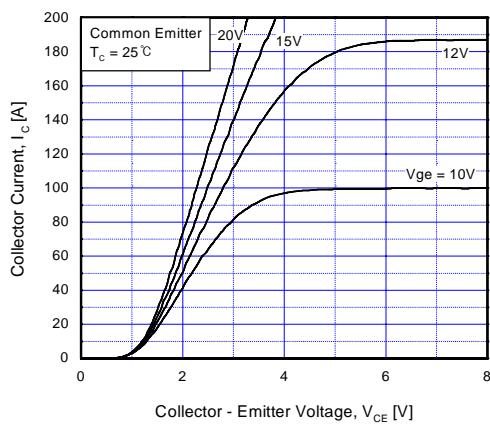
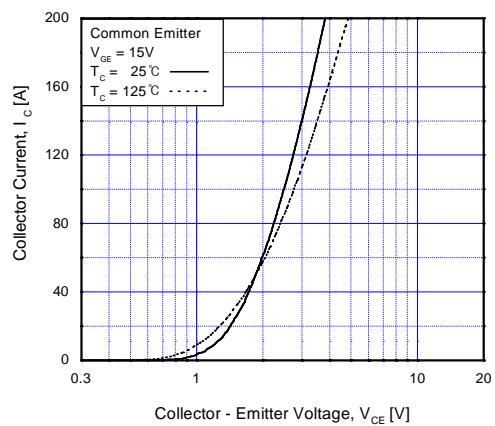
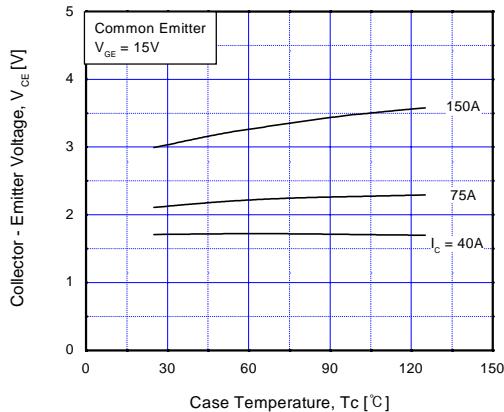
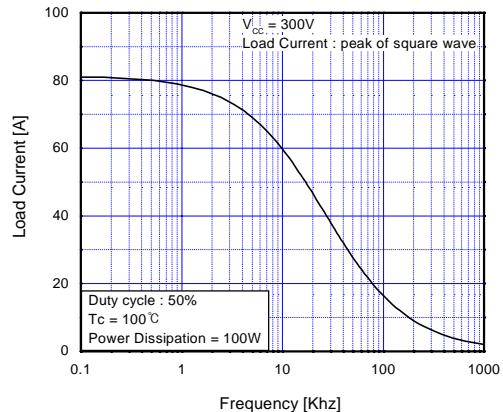
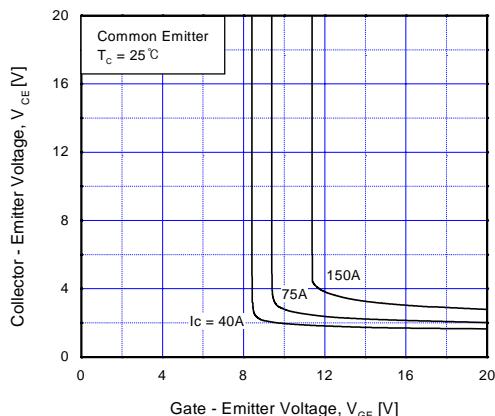
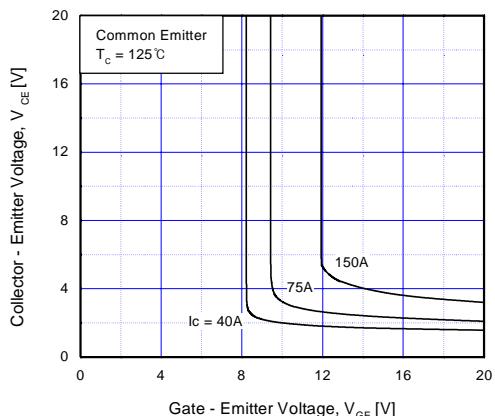


Electrical Characteristics of DIODE $T_C = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Conditions	Min.	Typ.	Max.	Units
V_{FM}	Diode Forward Voltage	$I_F = 75\text{A}$	$T_C = 25^\circ\text{C}$	--	1.9	2.8
			$T_C = 100^\circ\text{C}$	--	1.8	--
t_{rr}	Diode Reverse Recovery Time	$I_F = 75\text{A}$ $di / dt = 150 \text{ A/us}$	$T_C = 25^\circ\text{C}$	--	90	130
			$T_C = 100^\circ\text{C}$	--	130	--
I_{rr}	Diode Peak Reverse Recovery Current	$I_F = 75\text{A}$ $di / dt = 150 \text{ A/us}$	$T_C = 25^\circ\text{C}$	--	7	9
			$T_C = 100^\circ\text{C}$	--	10	--
Q_{rr}	Diode Reverse Recovery Charge	$I_F = 75\text{A}$ $di / dt = 150 \text{ A/us}$	$T_C = 25^\circ\text{C}$	--	315	590
			$T_C = 100^\circ\text{C}$	--	650	--

Thermal Characteristics

Symbol	Parameter	Typ.	Max.	Units
$R_{\theta JC}$	Junction-to-Case (IGBT Part, per 1/2 Module)	--	0.4	$^\circ\text{C/W}$
$R_{\theta JC}$	Junction-to-Case (DIODE Part, per 1/2 Module)	--	0.9	$^\circ\text{C/W}$
$R_{\theta CS}$	Case-to-Sink (Conductive grease applied)	0.05	--	$^\circ\text{C/W}$
Weight	Weight of Module	--	190	g

**Fig 1. Typical Output Characteristics****Fig 2. Typical Saturation Voltage Characteristics****Fig 3. Saturation Voltage vs. Case Temperature at Variant Current Level****Fig 4. Load Current vs. Frequency****Fig 5. Saturation Voltage vs. V_{GE}** **Fig 6. Saturation Voltage vs. V_{GE}**