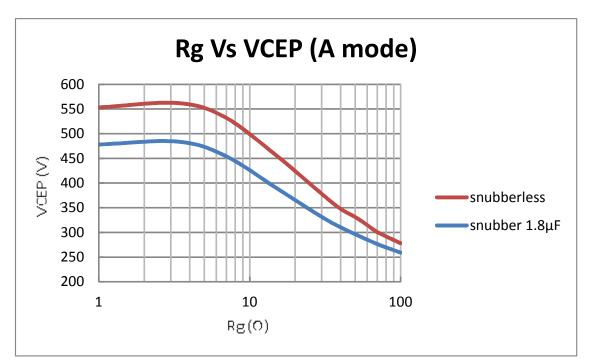
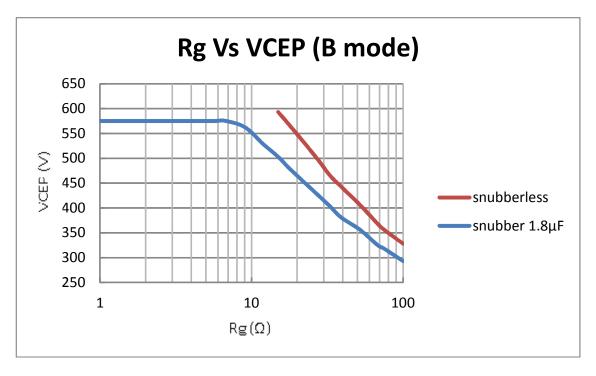
## — RB-IGBT module 4MBI400VG-060R-50

Dependence of spike voltage on gate resistance by the effect of snubber and CGE

Measured module:4MBI400VG-060R-50Measured condition:Vdc=200V, Ic=400A, Vge=+/-15V, Tj=125°C, Rg= variable

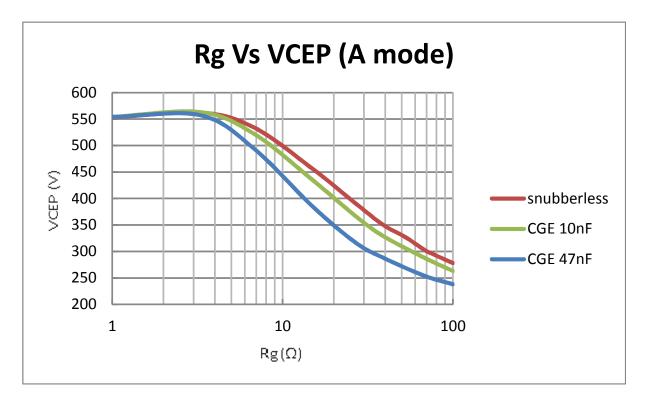


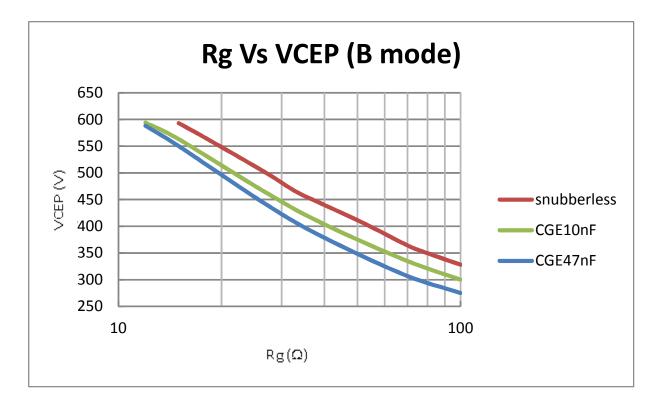


Dependence of spike voltage on gate resistance by the effect of snubber



Measured module: 4MBI400VG-060R-50 Measured condition: Vdc=200V, Ic=400A, Vge=+/-15V, Tj=125°C, Rg= variable

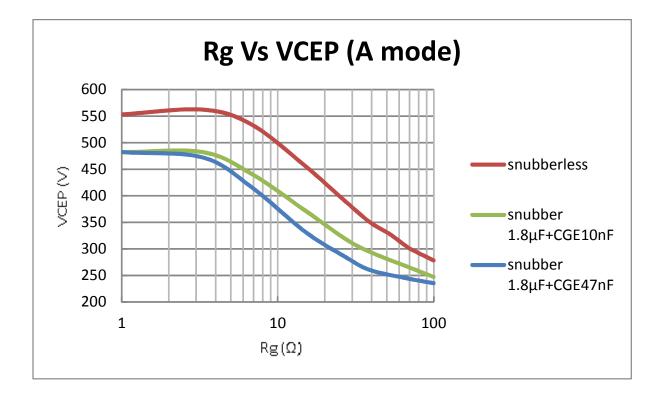


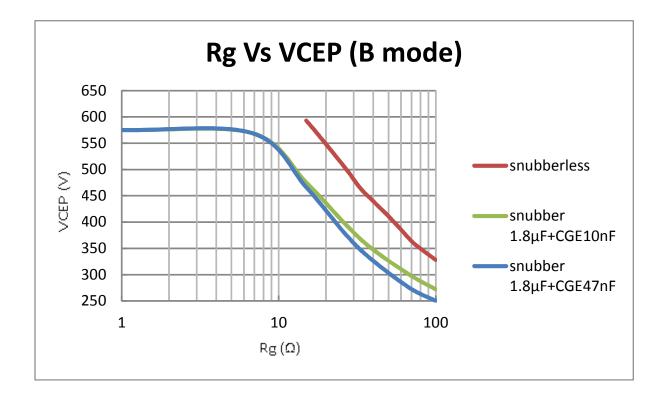


Dependence of spike voltage on gate resistance by the effect of CGE



Measured module: 4MBI400VG-060R-50 Measured condition: Vdc=200V, Ic=400A, Vge=+/-15V, Tj=125°C, Rg= variable

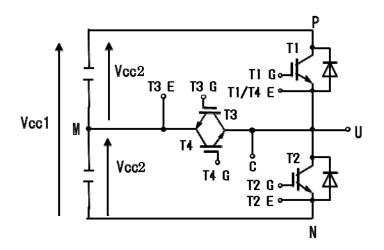




Dependence of spike voltage on gate resistance by the effect of snubber and CGE



## **Definitions of switching mode**



SW mode	Load L	T1	T2	Т3	Τ4
А	M-U	SW	OFF	OFF	ON
	M-U	OFF	SW	ON	OFF
В	P-U	OFF	OFF	SW	ON
	U-N	OFF	OFF	ON	SW

SW: Connect to drive circuit and input gate signal

ON: Bias voltage of gate +15V

OFF: Reverse bias voltage of gate -15V

Vcc2=Vcc1/2



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