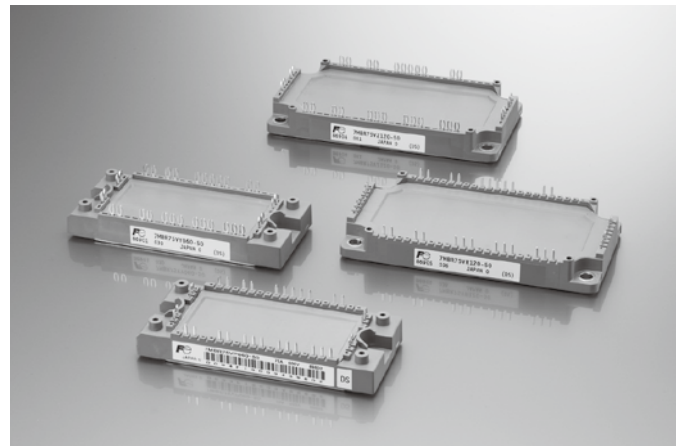


6th gen. IGBT Module V-series

■ Features

- More output power available with compact package
 - High performance 6th gen. IGBT/FWD chipset
 - $T_j(op) = 150^{\circ}C$
- Environmental friendly module
 - Easy assembly, solder free options
 - RoHS compliant
- Turn-on switching characteristics
 - Improved noise-loss trade-off
 - Reduced turn-on dV/dt , excellent turn-on di/dt
- Turn-off switching characteristics
 - Lower spike voltage & oscillation free
- Short circuit capability
 - $10\mu s$ at $150^{\circ}C$

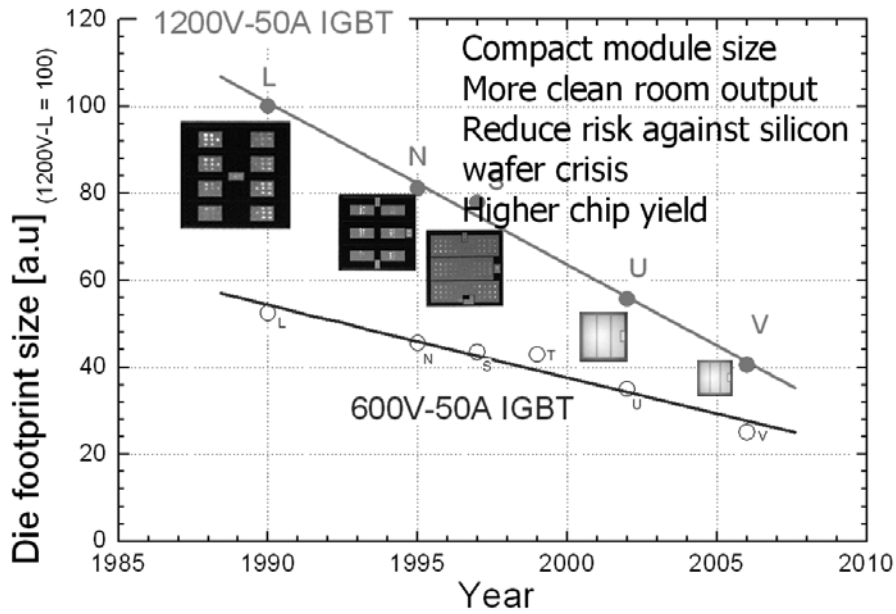


■ Line-up

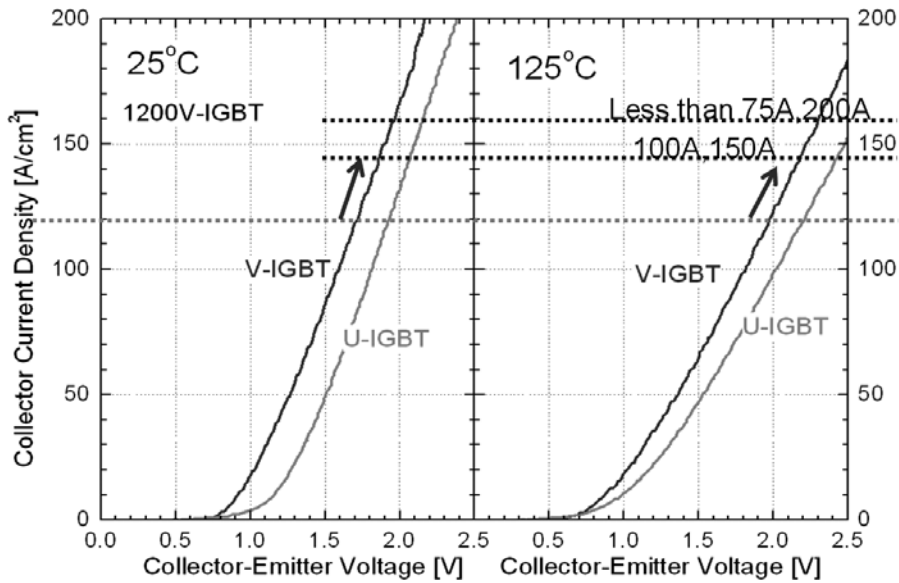
		Main Terminal	10	15	25	35	50	75	100	150	200	225	300	400	450	600	
V-series Line-up (600V Modules)	Solder	pin					PIM(EP2XT)		PIM(EP3XT)				EP2/PC2		EP3/PC3		
		screw					6in1(PC2XT)		6in1(PC3XT)				Dual		2in1(DualXT)		
	Solder Free	Solder Free pin	Solder Free Pin				PIM(EP2XT)		PIM(EP3XT)								
V-series Line-up (1200V Modules)	Solder	pin			PIM(EP2XT)		PIM(EP3XT)		6in1(PC2XT)		180A-Premium		EP2/PC2		EP3/PC3		
		screw							Dual		2in1(DualXT)		6in1(ECONOPACKXT)		550A		
	Solder Free	spring	Solder Free Pin						spring Dual		2in1(DualXT)						
		Solder Free pin	Solder Free Pin			PIM(EP2XT)		PIM(EP3XT)		6in1(PC2XT)		180A-Premium		6in1(PC3XT)			

Note: ECONO PACK™+ is a registered trademark of Infineon Technology AG, Germany

■ The IGBT Die Shrink History



■ The Output I-V Characteristics



V-IGBT strategy: Try die shrink as much as possible
→ Increase the rating current density