

大容量IGBT模块

High Power IGBT Module

●特点 Features

- 行业中具有最大电流额定值的绝缘栅场效应晶体管(IGBT)模块
- 采用第五代U系列绝缘栅场效应晶体管(IGBT)
- The largest current rating (3,600A) IGBT module in the market
- Employing 5th Generation U-Series IGBT

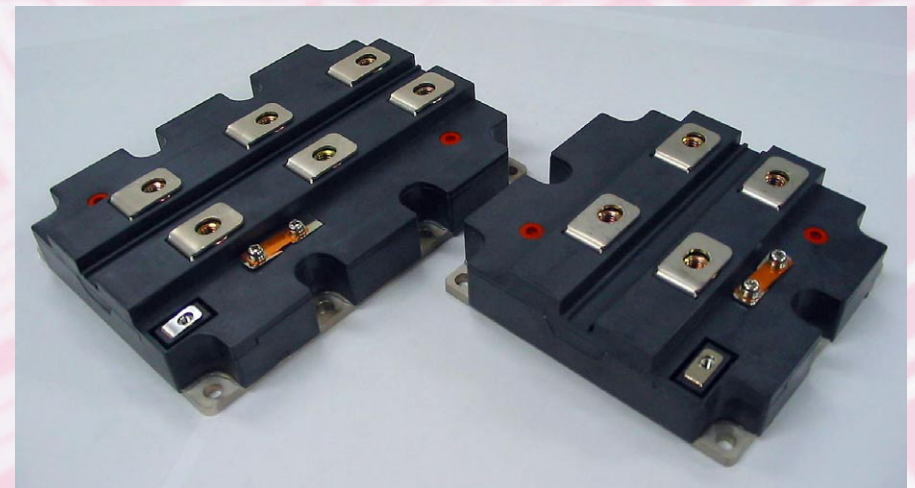
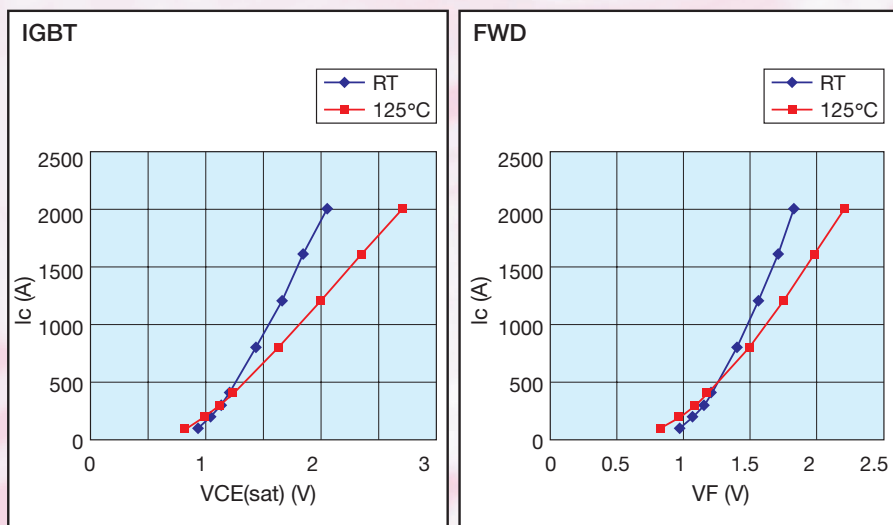
●用途 Applications

- 用于工业成套设备的大容量电机驱动系统
- High power AC drives

●特性 Characteristics

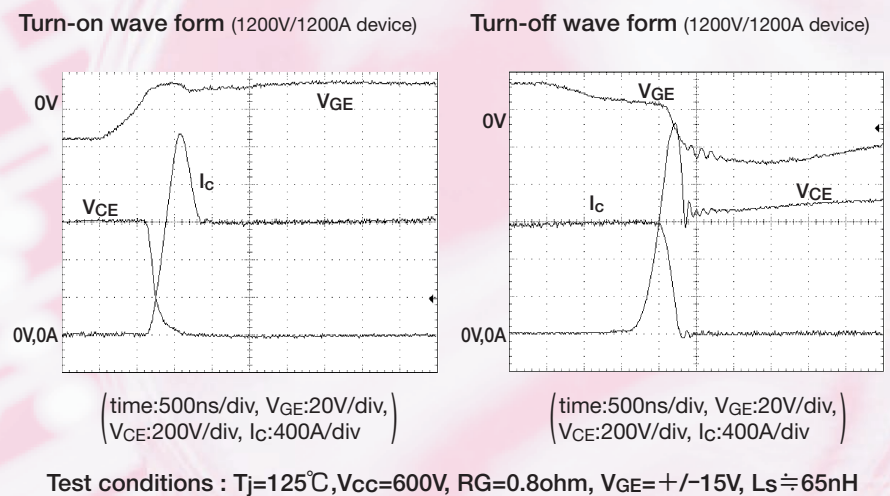
集电极发射极之间的饱和电压特性

Characteristics of collector-emitter saturation voltage



高速切换低损伤特性

Characteristics of high-speed switching, low-loss



●构成 Line-up

Electrical properties

Collector emitter voltage		1200V				1700V						
		1in1								2in1		
Collector current	TC=80°C	1200A	1600A	2400A	3600A	1200A	1600A	2400A	3600A	600A	800A	1200A
Peak collector current		2400A	3200A	4800A	7200A	2400A	3200A	4800A	7200A	1200A	1600A	2400A
Package		140×130	140×130	140×190	140×190	140×130	140×130	140×190	140×190	140×130	140×130	140×130
		M142	M142	M143	M143	M142	M142	M143	M143	M248	M248	M248
Vcesat	VGE=15V Tj=25°C VGE=15V Tj=125°C	1.75V typ 2.00V typ				2.05V typ 2.40V typ						
VF- diode	Tj=25°C Tj=125°C	1.85V typ 2.00V typ				1.80V typ 2.00V typ						
Gate threshold voltage	Tj= 25°C	6.2V typ				6.5V typ						
Stray inductance module		12nH typ		10nH typ		12nH typ		10nH typ		20nH typ		

Thermal properties

Transistor RthJC	Max. values	0.022K/W	0.016	0.013	0.008	0.022	0.016	0.013	0.008	0.044	0.032	0.025
Diode RthJC	Max. values	0.04K/W	0.032	0.021	0.014	0.04	0.032	0.021	0.014	0.08	0.064	0.042
Max junction temperature	Max. values	150°C										