



Trench Gate IGBT Module

Type	V _{CE(S)} Voltage Grade	I _C Current Rating @ 75°C	I _{CM} Maximum Current Rating	V _{CE(SAT)} Saturation Voltage (Typical)	E _{ts} Total Switching Energy	V _{iso} Isolation Voltage	R _{thJC}		Figure	Package style see outlines starting at page 86
							per IGBT Chip	per diode Chip		
	V	A	A	V	mJ	kV	K/W	K/W		
PSTG 25 HDT 06	600	25	75	1,9	4	3,0	1,1	4,0	46	
PSTG 25 HDT 08	800	25	75	1,9	4	3,0	1,1	4,0		
PSTG 25 HDT 12	1200	25	75	1,9	4	3,0	1,1	4,0		
PSTG 25 HTT 06	600	25	75	1,9	4	3,0	1,1	4,0	47	
PSTG 25 HTT 08	800	25	75	1,9	4	3,0	1,1	4,0		
PSTG 25 HTT 12	1200	25	75	1,9	4	3,0	1,1	4,0		
PSTG 50 HST 06	600	50	150	1,9	8	3,0	0,83	2,0	48	
PSTG 50 HST 08	800	50	150	1,9	8	3,0	0,83	2,0		
PSTG 50 HST 12	1200	50	150	1,9	8	3,0	0,83	2,0		
PSTG 75 HST 06	600	75	225	1,9	12	3,0	0,55	1,33	49	
PSTG 75 HST 08	800	75	225	1,9	12	3,0	0,55	1,33		
PSTG 75 HST 12	1200	75	225	1,9	12	3,0	0,55	1,33		



Fig. 46
Weight = 16 g



Fig. 47
Weight = 16 g



Fig. 48
Weight = 16 g



Fig. 49
Weight = 16 g

Circuit configurations for the Trench Gate IGBT Modules

PSTG 25 HDT Half-Bridge ECO-PAC™		PSTG 50 HST Single Switch	
PSTG 25 HTT Triple Switch		PSTG 75 HST Single Switch	

Trench Gate IGBT Modules



POWERSEM ECO-PACs™

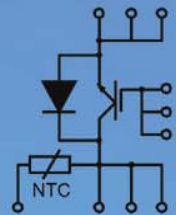
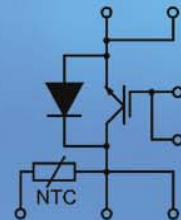
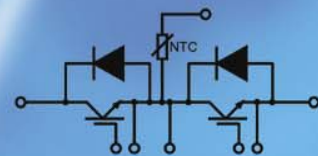
N-Channel Trench Gate IGBT Module in ECO-PAC™

Features

- Package with DCB Ceramic Base-Plate and Soldering Pins for PCB Mounting
- Isolation Voltage over 3000 V~
- Trench Gate
- Enhancement Mode N-Channel Device
- Non-Punch through Structure
- High Switching Speed
- Low on-state Saturation Voltage
- High Input Impedance simplifies Gate Drive
- Latch-Free Operation
- Fully Short Circuit Rated to 10 μ s
- Wide RBSOA

Applications

- High Frequency Inverters
- Motor Control
- Switch Mode Power Supplies
- High Frequency Welding
- UPS Systems
- PWM Drives



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