

- ¶ IGBT<sup>3</sup> CHIP(Trench+Field Stop technology)
- ¶ High short circuit capability,self limiting short circuit current
- ¶  $V_{CE(sat)}$  with positive temperature coefficient
- ¶

## APPLICATIONS

- ¶ AC motor control
- ¶ Motion/servo control
- ¶ Inverter and power supplies
- ¶ Photovoltaic/Fuel cell

Unit

mA

mA

nA

# MMG450WE065B6EN

## NTC CHARACTERISTICS ( $T_C=25^\circ\text{C}$ unless otherwise specified)

Symbol	Parameter/Test Conditions	Min.	Typ.	Max.	Unit
$R_{25}$	Resistance $T_C=25$		5		K
$B_{25/50}$	$R_2 = R_{25} \exp [B_{25/50}(1/T_2 - 1/(298.15 \text{ K}))]$		3375		K

## MODULE CHARACTERISTICS ( $T_C=25^\circ\text{C}$ unless otherwise specified)

Symbol	Parameter/Test Conditions	Values	Unit
$T_{Jmax}$	Max. Junction Temperature	175	
$T_{Jop}$	Operating Temperature	-40~150	
$T_{stg}$	Storage Temperature	-40~125	
$V_{isol}$	Isolation Breakdown Voltage AC, 50Hz(R.M.S), t=1minute	3000	V
CTI	Comparative Tracking Index	· 225	
Torque	to heatsink	Recommended $\ddot{A}M5 \ddot{A}$	2.5~5 Nm
	to terminal	Recommended $\ddot{A}M6 \ddot{A}$	3~5 Nm
Weight		350	g

$I_c(A)$

$I_c(A)$

$V_{CE} \ddot{A}V \ddot{A}$

Figure 1. Typical Output Characteristics IGBT-inverter

$V_{CE} \ddot{A}V \ddot{A}$

Figure 2. Typical Output Characteristics IGBT-inverter

$V_{GE}$  [V]

Figure 3. Typical Transfer characteristics IGBT-inverter

$R_g$  [Ω]

Figure 4. Switching Energy vs Gate Resistor IGBT-inverter

$V_F(V)$

Rg

Figure 14. Circuit Diagram

Dimensions in (mm)  
Figure 15. Package Outline