

APPLICATIONS

† Medical applications

† Motion/servo control

††

				T_{Jmax}	Marking	Package
MM25G3T120B	1200V	25A	1.8V	175°C	MM25G3T120B	TO-247

ABSOLUTE MAXIMUM RATINGS($T_C=25^{\circ}C$ unless otherwise specified)

Symbol	Parameter/Test Conditions		Values	
V_{CES}	Collector Emitter Voltage	$T_J=25$	1200	V
V_{GES}	Gate Emitter Voltage		± 20	
I_C	DC Collector Current	$T_C=25$	40	A
		$T_C=110$	25	
I_{Cpuls}	Pulsed collector current, tp limited by T_{Jmax}		80	
V_{RRM}	Repetitive Reverse Voltage	$T_J=25$	1200	

Unit

μA

mA

nA

nC

nF

pF

ns

ns

ns

ns

ns

18426.009 C_m(f) T_j ET(0.772.4) 0.3 T.88 460.52 15.72 4.68 re

ns

T_J=125 250 ns

T_J=150 270 ns

T = 25 100 --

MM25G3T120B



$V_{CE} \text{ (V)}$

Figure 1. Typical Output Characteristics IGBT

$I_c \text{ (A)}$

$V_{CE} \text{ (V)}$

Figure 2. Typical Output Characteristics IGBT

$I_c \text{ (A)}$

$E_{on} \text{ (mJ)}$

MM25G3T120B

I_c (A)

T_c ()

Figure 7. Collector Current vs Case temperature
IGBT

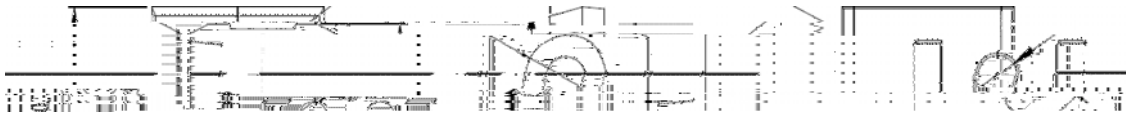
I_F (A)

T_c ()

Figure 8. Forward current vs Case temperature
Diode

I_c (A)

t_c (mJ)



Dimensions in (mm)221 424.G3 4249354 TD Figure0 13 Package Outline B