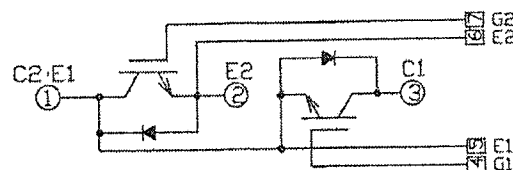

The technical drawing illustrates an "Isolated Package Module". It consists of two views:

- Top View:** Shows a rectangular module with four circular components arranged horizontally. Dimensions include:
 - Total width: 80 mm
 - Component diameter: Ø16 mm
 - Center-to-center distance between components: 27 mm
 - Distance from left edge to first component center: 27 mm
 - Distance from last component center to right edge: 17 mm
 - Vertical dimensions on the right: 10 mm, 10 mm, 10 mm, 10 mm, 10 mm.
 - A label "NAME PLATE" points to the bottom surface.
- Side View:** Shows the profile of the module. Dimensions include:
 - Total height: 31 mm
 - Base thickness: 15 mm
 - Internal features are dimensioned as 16, 7, 16, 7, 16 mm.
 - A label "TAPERED SIDE VIEW" points to the side profile.

Internal schematic diagram

Internal schematic diagram

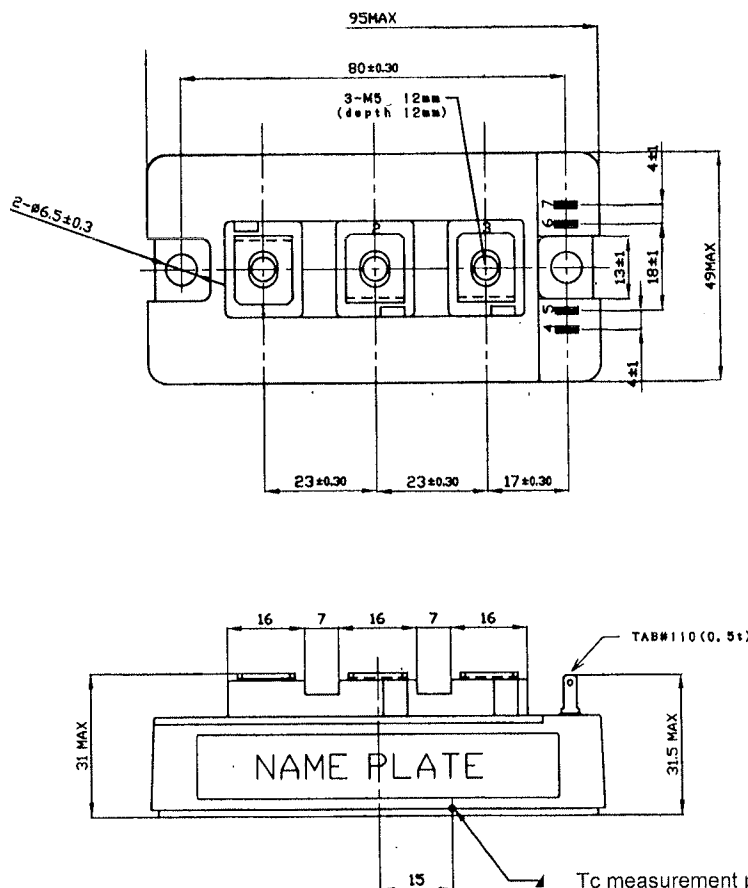


$T_j = 25^\circ\text{C}$ (unless otherwise noted) per diode

< Electrical Characteristics >

$T_j = 25^\circ\text{C}$ (unless otherwise noted) per diode

Symbol	Item	Conditions	Ratings			Unit
			Min.	Typ.	Max.	
I_{GES}	Gate Leakage Current	$V_{GE} = \pm 20, V_{CE} = 0V$			± 20	μA
I_{CES}	Collector Cutt-Off Current	$V_{CE} = 500V, V_{GE} = 0V$			5.0	μA
$V_{(BR)CES}$	Collector-Emitter Breakdown Voltage	$V_{GE} = 0V, I_C = 1mA$	620	650		V
$V_{GE(th)}$	Gate Theshold Voltage	$V_{CE} = 10V, I_C = 20mA$	5.5	6.0	6.5	V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = 200A, V_{GE} = 15V$	1.2	1.35	1.45	V
C_{ies}	Input Capacitance	$V_{CE} = 10V, V_{GE} = 0V, f = 1MHz$	10	14	18	nF
t_r	Switching Time	Rise Time	0.2	0.4	0.6	μs
$t_{d(on)}$		Turn-on Delay Time	0.6	0.8	1.0	μs
t_f		Fall Time	1.2	1.5	1.8	μs
$t_{d(off)}$		Turn-off Delay Time	5.5	6.0	6.5	μs
V_{ECS}	Emitter-Collector Voltage	$-I_C = 200A, V_{GE} = 0V$		1.3	1.45	V
t_{rr}	Reverse Recovery Time	$-I_C = 200A, V_{GE} = -10V$ $di/dt = 400A/\mu s$		1.0	1.5	μs
$R_{th(j-c)}$	Thermal Resistance	IGBT-Case			0.16	$^\circ C/W$
		Diode-Case			0.40	$^\circ C/W$



* Dimensions in millimeters