SEMiX 251D12Fs

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SEMiX® 13s

Bridge Rectifier Module (uncontrolled)

SEMiX 251D12Fs

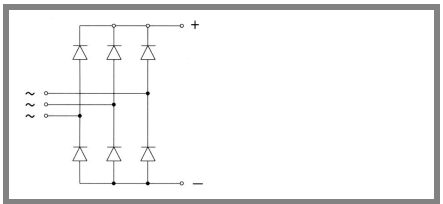
Target Data

Features

- terminal height of 17mm
- chip solder on direct copper bonded Al_2O_3 ceramic
- heat transfer through Al_2O_3 ceramic isolated baseplate

Typical Applications

- Fast Input Bridge Rectifier for
- AC/DC motor control
- power supply
- high frequency applications



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V_{RSM} V	V_{RRM}, V_{DRM} V	I_D = 250 A (full conduction) (T_c = 85 °C)
1200	1200	SEMiX 251D12Fs

Symbol	Conditions	Values	Units
I_D	T_c = 85 °C	250	A
	T_C = 100 °C	215	
I_{FSM}	T_{vj} = 25 °C; 10 ms	1660	A
	T_{vj} = 150 °C; 10 ms	1330	A
i^2t	T_{vj} = 25 °C; 8,3 ... 10 ms	13700	A²s
	T_{vj} = 150 °C; 8,3 ... 10 ms	8800	A²s
V_F	T_{vj} = 25 °C; I_F = 150 A	max. 2,5	V
$V_{(TO)}$	T_{vj} = 150 °C	max. 1,12	V
r_T	T_{vj} = 150 °C	max. 7,5	mΩ
I_{RD}	T_{vj} = 150 °C; V_{DD} = V_{DRM}; V_{RD} = V_{RRM}	max. 40	mA
			mA
$R_{th(j-c)}$	per diode	0,26	K/W
			K/W
$R_{th(c-s)}$	per module	0,04	K/W
T_{vj}		- 40 ... + 150	°C
T_{stg}		- 40 ... + 125	°C
V_{isol}	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	4800 (4000)	V
M_s	(min./max.)	3/5	Nm
M_t	(min./max.)	2,5/5	Nm
a		5 * 9,81	m/s²
m		300	g
Case	SEMiX 13s		

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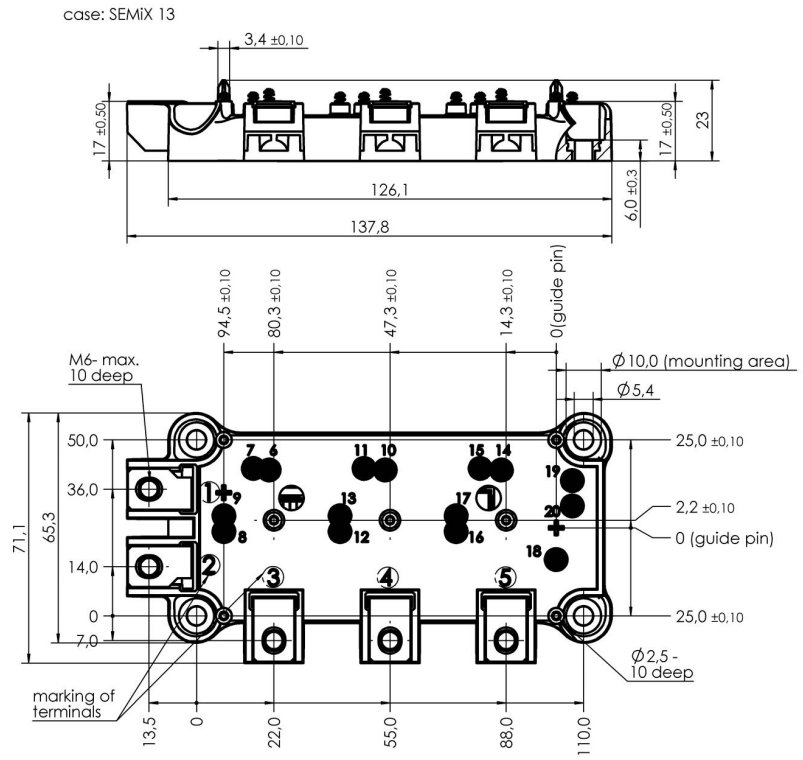
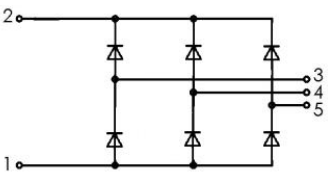
Dimensions in mm



Case SEMiX13s



D pinout SEMiX13s

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