

SEMiX® 13s

Bridge Rectifier Module (uncontrolled)

SEMiX 341D

Target Data

Features

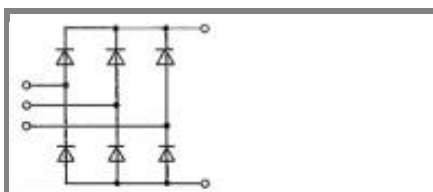
- terminal height of 17mm
- chip solder on direct copper bonded Al₂O₃ ceramic
- heat transfer through Al₂O₃ ceramic isolated baseplate

Typical Applications

- Input Bridge Rectifier for
- AC/DC motor control
- power supply

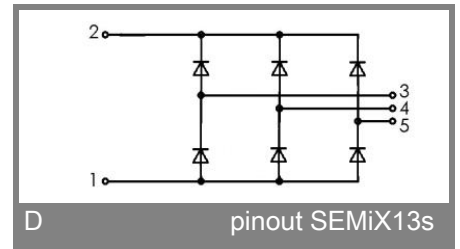
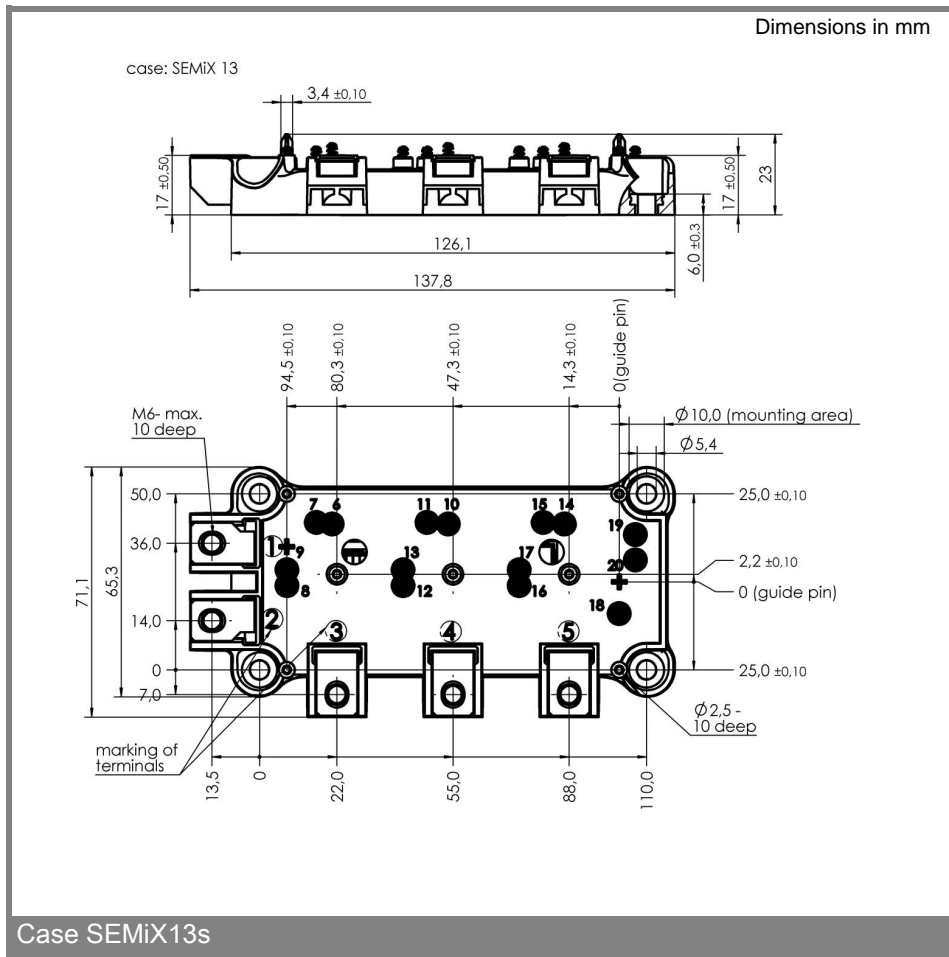
V_{RSM} V	V_{RRM}, V_{DRM} V	$I_D = 340$ A (full conduction) ($T_c = 85$ °C)
1700	1600	SEMiX 341D16s

Symbol	Conditions	Values	Units
I_D	$T_c = 85$ °C	340	A
	$T_c = 100$ °C	290	
I_{FSM}	$T_{vj} = 25$ °C; 10 ms	2500	A
	$T_{vj} = 130$ °C; 10 ms	2000	A
i^2t	$T_{vj} = 25$ °C; 8,3 ... 10 ms	31200	A ² s
	$T_{vj} = 130$ °C; 8,3 ... 10 ms	20000	A ² s
V_F	$T_{vj} = 25$ °C; $I_F = 400$ A	max. 1,75	V
$V_{(TO)}$	$T_{vj} = 130$ °C	max. 0,9	V
r_T	$T_{vj} = 130$ °C	max. 2,7	mΩ
I_{RD}	$T_{vj} = 130$ °C; $V_{DD} = V_{DRM}; V_{RD} = V_{RRM}$	max. 4,5	mA
$R_{th(j-c)}$	per diode	0,22	K/W
			K/W
$R_{th(c-s)}$	per module	0,04	K/W
	T_{vj}	- 40 ... + 130	°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/s ²
m		300	g
Case	SEMiX 13s		



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