

SKKR 300/0.2 BVR



SEMITRANS™ 5

Shunt Modules

SKKR 300/0.2 BVR

Features

- Low inductance value
- Excellent long term stability
- Isolated copper baseplate using DCB (Direct Copper Bonding) Technology
- Large clearance (13 mm) and creepage distance (20 mm)
- Using BVR Shunts for extended lifetime

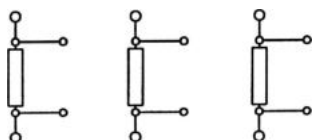
Typical Applications

- Current sensor for frequency converter

Absolute Maximum Ratings		$T_c = 25\text{ °C}$, unless otherwise specified	
Symbol	Conditions	Values	Units
I_{DCmax}	$T_{shunt} = 150\text{ °C}$; $T_c = 25(80)\text{ °C}$	200 (150)	A
I_{SC}	$t_{sc} = 10\text{ }\mu\text{s}$	525	A
R_{shunt}	Toleranz = $\pm 5\%$	0,71	m Ω
$T_{cr(shunt)}$	temperature coefficient (20-60) °C	50	ppm/K
P_{tot}	per shunt; $T_c = 25(80)\text{ °C}$	27 (15)	W
T_{stg}		- 40 ... + 125	°C
V_{isol}	AC, 1 min., $I_{ISO} = 1\text{ mA}$	2500	V
humidity	IEC-EN 60 721-3-3		
climate	IEC 68 T.1	40/126/56	

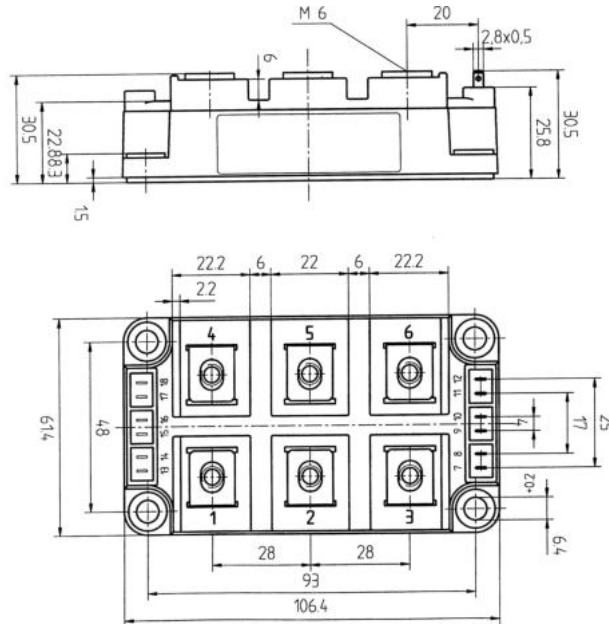
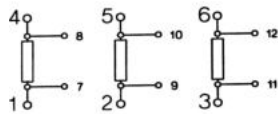
Characteristics		$T_c = 25\text{ °C}$, unless otherwise specified			Units
Symbol	Conditions	min.	typ.	max.	
V_{7-8}	$I_{DC} = 300\text{ A}$; $T_c = 25(125)\text{ °C}$	210	213 (211)	216	mV
V_{9-10}	$I_{DC} = 300\text{ A}$; $T_c = 25(125)\text{ °C}$	210	213 (211)	216	mV
V_{11-12}	$I_{DC} = 300\text{ A}$; $T_c = 25(125)\text{ °C}$	210	213 (211)	216	mV
$C_{shunt/C}$		280			pF
L_{tray}	$I_C = 100\text{ A}$; $V_{CE} = 600\text{ V}$ (turn off single IGBT)	0,4			nF
Thermal characteristics					
$R_{th(j-c)}$		7,0			K/W

Mechanical Data					Units
Symbol	Conditions	min.	typ.	max.	
M_1	to heatsink, SI Units (M6)	3		5	Nm
	to heatsink, US Units	27		44	lb.in.
M_2	to heatsink, SI Units (M6)	2,5		5	Nm
	to heatsink, US Units	22		44	lb.in.
a				5x9,81	m/s ²
w				420	g

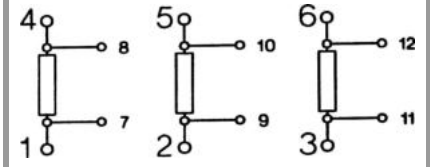


SKKR 300/0.2 BVR

Dimensions in mm



Case D 97



SKKR

Case D 97

This is an electrostatic discharge sensitive device (ESDS), international standard IEC 60747-1, Chapter IX.

This technical information specifies semiconductor devices but promises no characteristics. No warranty or guarantee expressed or implied is made regarding delivery, performance or suitability.