

SEMIPACK[®] 2

Rectifier Diode Modules

SKKD 250/18

Features*

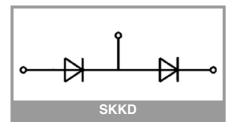
- Heat transfer through aluminum oxide ceramic insulated metal baseplate
- Hard soldered joints for high reliability
- UL recognized, file no. E63532

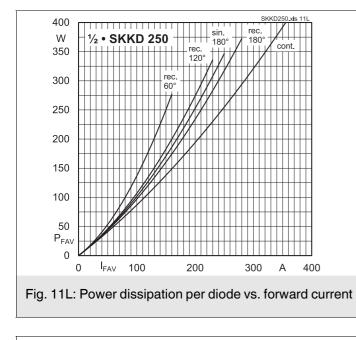
Typical Applications

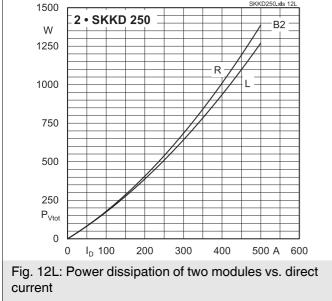
- Non-controllable rectifiers for AC/AC converters
- Line rectifiers for transistorized AC motor controllers
- Field supply for DC motors

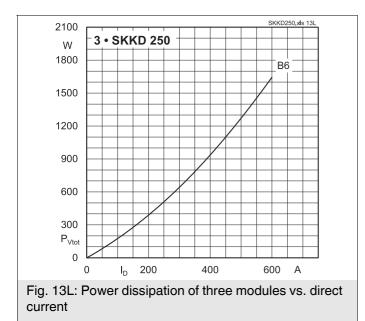
Absolute Maximum Ratings								
Symbol	Conditions		Values	Unit				
Recitifier	Diode							
I _{FAV}	sin. 180°	T _c = 85 °C	255	А				
	T _{j max} = 135 °C	T _c = 100 °C	199	А				
I _{FSM}	- 10 ms	T _j = 25 °C	6600	А				
		T _j = 135 °C	6000	А				
i ² t	- 10 ms	T _j = 25 °C	217800	A ² s				
		T _j = 135 °C	180000	A ² s				
V _{RSM}	T _j = 25 °C		1900					
V _{RRM}	T _j = 25 °C		1800					
Tj			-40 135					
Module								
T _{stg}			-40 125	°C				
Visol		1 min	3000	V				
	a.c.; 50 Hz; r.m.s.	1 s	3600	V				

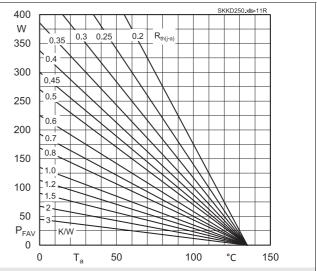
Characteristics									
Symbol	Conditions	min.	typ.	max.	Unit				
Diode									
V _F	$T_j = 25 \ ^{\circ}C, I_F = 750 \ A$				1.55	V			
V _{F0}	T _j = 135 °C				0.77	V			
r _F	T _j = 135 °C				1.00	mΩ			
I _R	T _j = 135 °C, V _{RRM}				9	mA			
R _{th(j-c)}	- cont.	per chip			0.13	K/W			
		per module			0.065	K/W			
R _{th(j-c)}	sin. 180°	per chip			0.14	K/W			
		per module			0.07	K/W			
Module									
R _{th(c-s)}	chip			0.05		K/W			
	module			0.03		K/W			
Ms	to heatsink M5		4.25		5.75	Nm			
Mt	to terminals M6		4.25		5.75	Nm			
а					5 * 9.81	m/s²			
w				165		g			

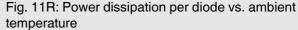


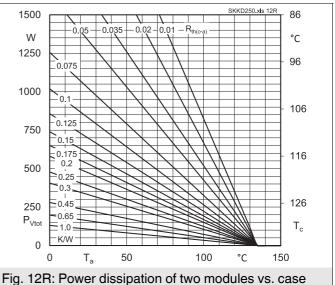












temperature

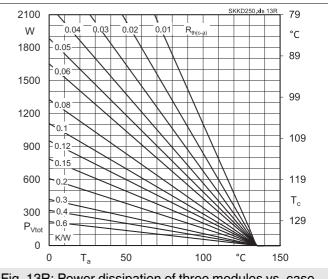
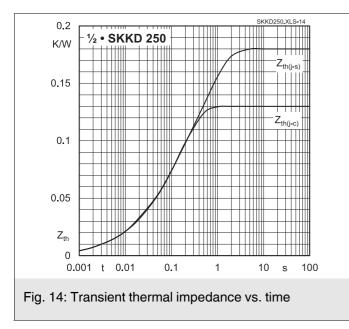
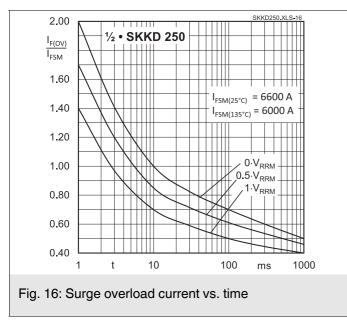
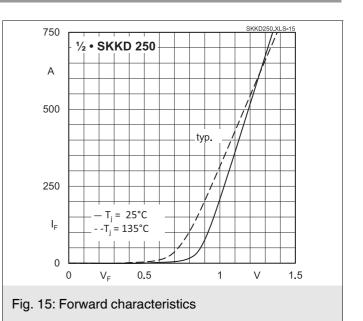
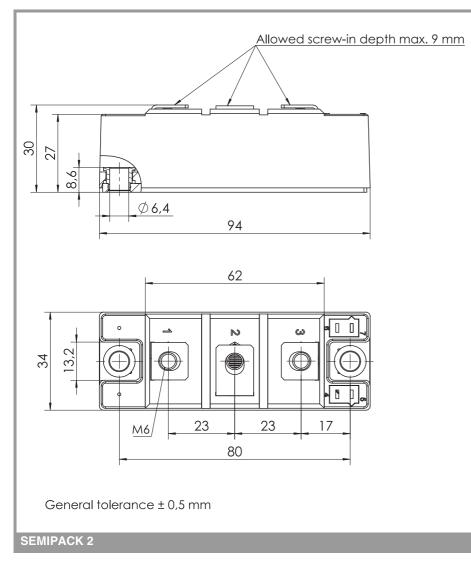


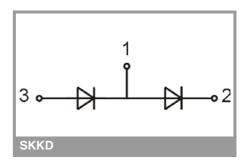
Fig. 13R: Power dissipation of three modules vs. case temperature











This is an electrostatic discharge sensitive device (ESDS) due to international standard IEC 61340.

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