SKMD 202E, SKND 202E



SEMIPACK[®] 2

Ultrafast Epitaxial Diode Modules

SKND 202E SKMD 202E

Features

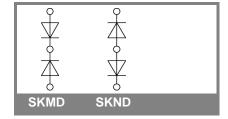
- · Isolated metal baseplate
- Very short recovery times
- · Low switching losses
- Up to 300 V peak inverse voltage
- SKMD common cathode SKND common anode
- UL recognized, file no. E 63 532

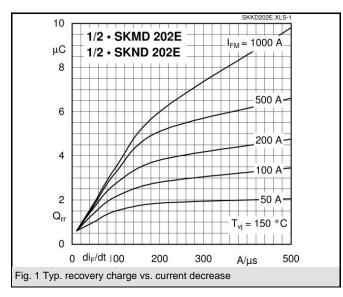
Typical Applications*

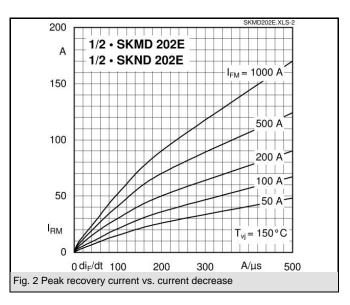
- Switched mode power converters
- Inverse diode for transistors in AC and DC motor controls
- Uninterruptible power supplies (UPS)

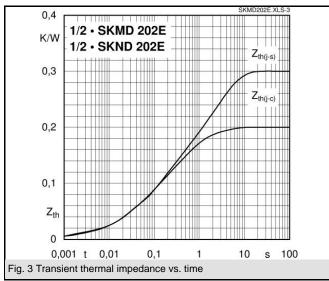
V _{RSM}	V_{RRM}	I _{FRMS} = 325 A (maximum value for continuous operation)		
V	V	I _{FAV} = 202 A (sin. 180, 50 Hz; T _c = 87 °C)		
200	200	SKMD 202E02	SKND 202E02	
300	300	SKMD 202E03	SKND 202E03	

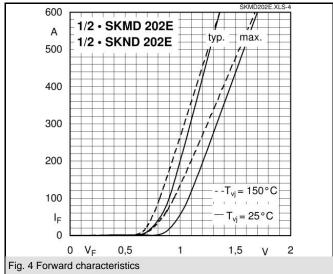
Symbol	Conditions	Values	Units
I _{FAV}	sin. 180; T _c = 85 (100) °C	208 (156)	Α
I _{FSM}	T _{vi} = 25 °C; 10 ms	3200	Α
	T _{vi} = 150 °C; 10 ms	2800	Α
i²t	T _{vj} = 25 °C; 8,3 10 ms	51000	A²s
	T _{vj} = 150 °C; 8,3 10 ms	39000	A²s
V_{F}	T _{vi} = 25 °C; I _F = 500 A	max. 1,65	V
$V_{(TO)}$	T _{vi} = 150 °C	max. 0,8	V
r _T	T _{vj} = 150 °C	max. 1,5	mΩ
I_{RD}	$T_{vj} = 25 ^{\circ}\text{C}; V_{RD} = V_{RRM}$	max. 2	mA
I_{RD}	T _{vj} = 130 °C; V _{RD} = V _{RRM}	max. 100	mA
Q _{rr}	T _{vi} = 150 °C, I _F = 50 A,	2	μC
I _{RM}	-di/dt = 100 A/µs, V _R = 100 V	16	Α
t _{rr}		-	ns
E _{rr}		-	mJ
R _{th(j-c)}	per diode / per module	0,2 / 0,1	K/W
R _{th(c-s)}	per diode / per module	0,1 / 0,05	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.	3000 / 2500	V~
M _s	to heatsink	5 ± 15 %	Nm
M_t	to terminals	5 ± 15 %	Nm
а		5 * 9,81	m/s²
m	approx.	250	g
Case	SKMD	A 51	
	SKND	A 52	

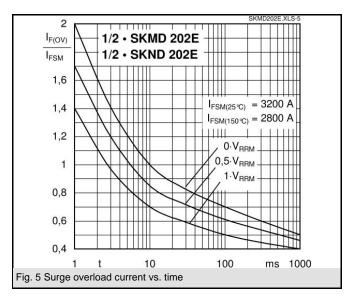




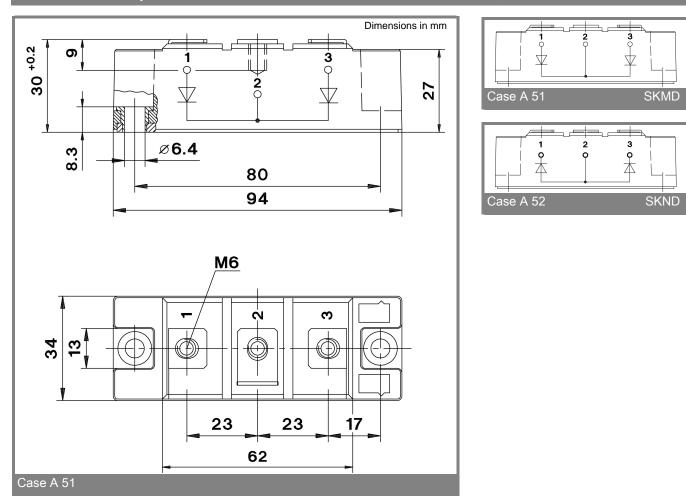








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^{*} The specifications of our components may not be considered as an assurance of component characteristics. Components have to be tested for the respective application. Adjustments may be necessary. The use of SEMIKRON products in life support appliances and systems is subject to prior specification and written approval by SEMIKRON. We therefore strongly recommend prior consultation of our personal.

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