

# SKMD 202E, SKND 202E

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**SEMIPACK<sup>®</sup> 2**

## Ultrafast Epitaxial Diode Modules

**SKND 202E**

**SKMD 202E**

### Features

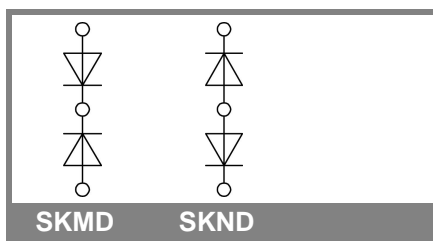
- Isolated metal baseplate
- Very short recovery times
- Low switching losses
- Up to 400 V peak inverse voltage
- SKMD common cathode  
SKND common anode
- UL recognized, file no. E 63 532

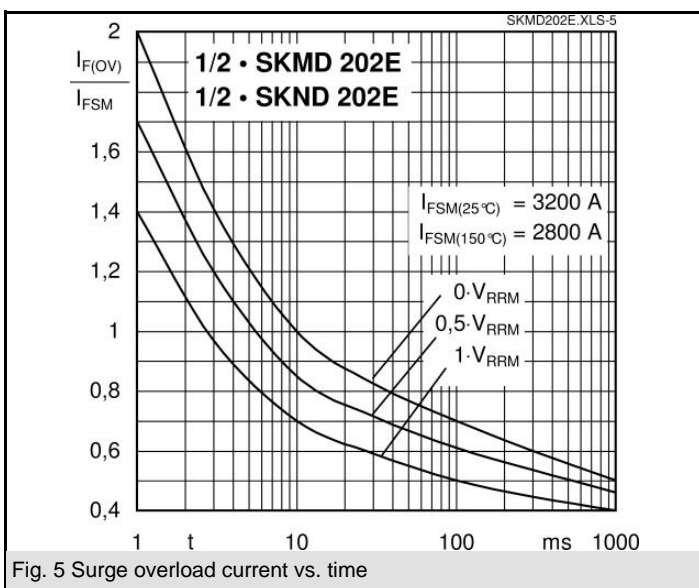
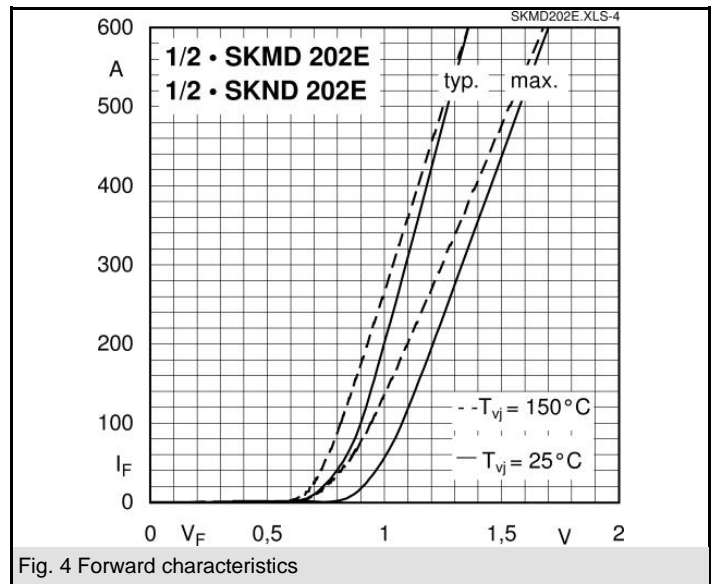
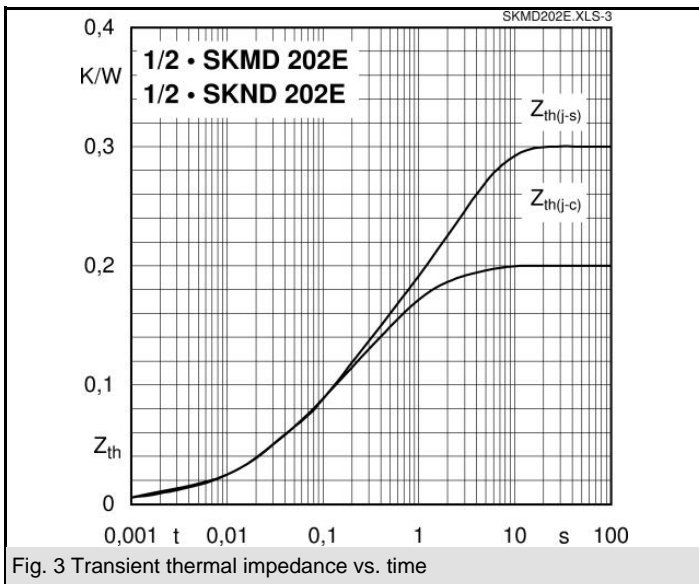
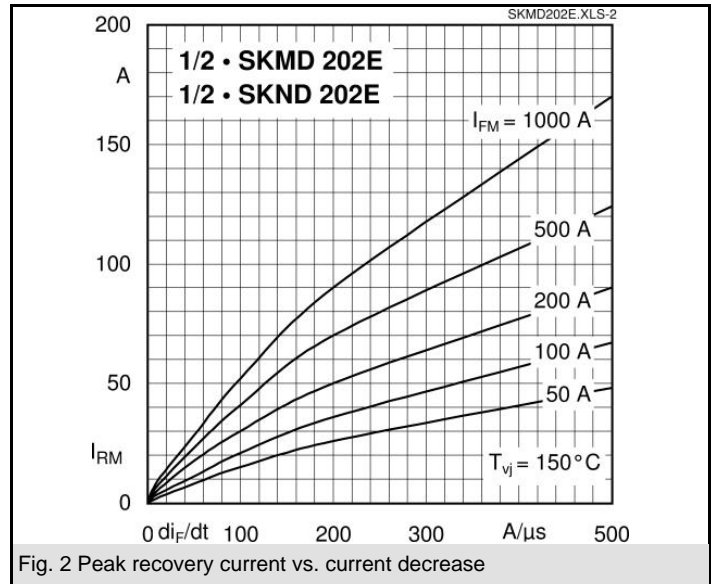
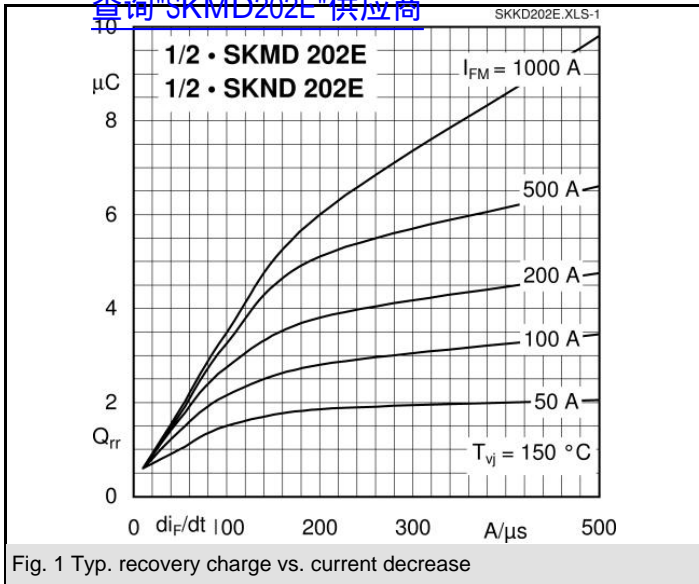
### Typical Applications

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

$V_{RSM}$ V	$V_{RRM}$ V	$I_{FRMS} = 325$ A (maximum value for continuous operation) $I_{FAV} = 202$ 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)	A
$I_{FSM}$	$T_{vj} = 25$ °C; 10 ms	3200	A
	$T_{vj} = 150$ °C; 10 ms	2800	A
$i^2t$	$T_{vj} = 25$ °C; 8,3 ... 10 ms	51000	A <sup>2</sup> s
	$T_{vj} = 150$ °C; 8,3 ... 10 ms	39000	A <sup>2</sup> s
$V_F$	$T_{vj} = 25$ °C; $I_F = 500$ A	max. 1,65	V
$V_{(TO)}$	$T_{vj} = 150$ °C	max. 0,8	V
$r_T$	$T_{vj} = 150$ °C	max. 1,5	mΩ
$I_{RD}$	$T_{vj} = 25$ °C; $V_{RD} = V_{RRM}$	max. 2	mA
$I_{RD}$	$T_{vj} = 130$ °C; $V_{RD} = V_{RRM}$	max. 100	mA
$Q_{rr}$	$T_{vj} = 150$ °C, $I_F = 50$ A,	2	μC
$I_{RM}$	$-di/dt = 100$ A/μs, $V_R = 100$ V	16	A
$t_{rr}$		-	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
$a$		5 * 9,81	m/s <sup>2</sup>
$m$	approx.	250	g
Case	SKMD	A 51	
	SKND	A 52	

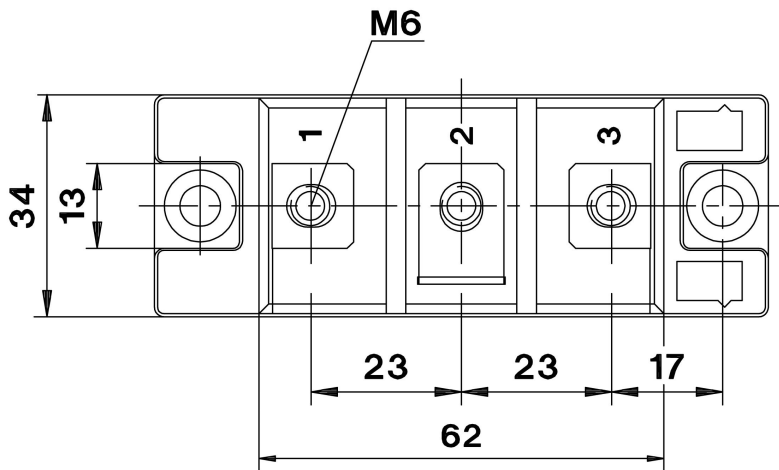
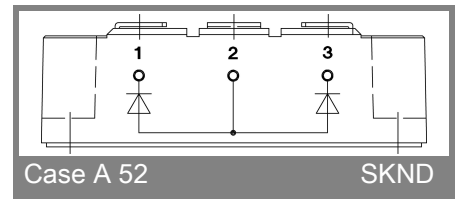
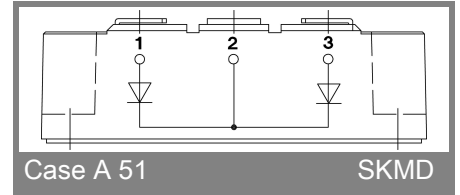
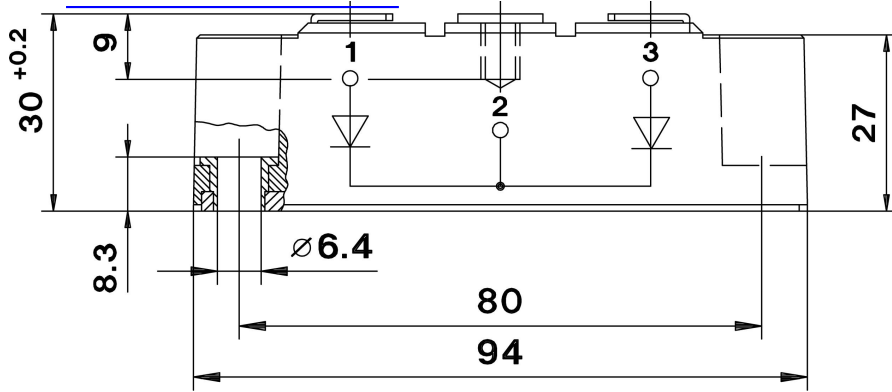




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Dimensions in mm



Case A 51

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