



**SEMIPACK® 3 1)**

## Rectifier Diode Modules

### SKKE 380

#### Features

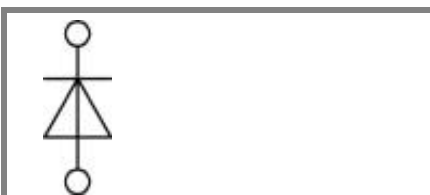
- Heat transfer through aluminium nitride ceramic isolated metal baseplate
- Precise metal pressure contacts for high reliability
- UL recognized, file no. E 63 532

#### Typical Applications

- Line rectifiers for transistorized AC motor controllers
  - Field supply for DC motors
- 1) Discontinued version, redesigned version already available
  - 2) See the assembly instruction
  - 3) The screws must be lubricated

$V_{RSM}$ V	$V_{RRM}$ V	$I_{FRMS} = 600$ A (maximum value for continuous operation) $I_{FAV} = 380$ A (sin. 180; $T_c = 100$ °C)		
1300	1200	SKKE 380/12		
1700	1600	SKKE 380/16		

Symbol	Conditions	Values	Units
$I_{FAV}$	sin. 180; $T_c = 100$ °C	380	A
$I_{FSM}$	$T_{vj} = 25$ °C; 10 ms	11000	A
	$T_{vj} = 150$ °C; 10 ms	10000	A
$i^2t$	$T_{vj} = 25$ °C; 8,3 ... 10 ms	605000	A <sup>2</sup> s
	$T_{vj} = 150$ °C; 8,3 ... 10 ms	500000	A <sup>2</sup> s
$V_F$	$T_{vj} = 25$ °C; $I_F = 1000$ A	max. 1,25	V
$V_{(TO)}$	$T_{vj} = 150$ °C	max. 0,8	V
$r_T$	$T_{vj} = 150$ °C	max. 0,35	mΩ
$I_{RD}$	$T_{vj} = 150$ °C; $V_{RD} = V_{RRM}$	max. 15	mA
$R_{th(j-c)}$	cont.; per diode = per module	0,11	K/W
	sin. 180; per diode = per module	0,116	K/W
$R_{th(c-s)}$	per diode = per module	0,04	K/W
$T_{vj}$		- 40 ... + 150	°C
$T_{stg}$		- 40 ... + 130	°C
$V_{isol}$	a. c. 50 Hz; r.m.s.; 1 s / 1 min.	3600 / 3000	V~
$M_s$	to heatsink	$5 \pm 15$ % <sup>2)</sup>	Nm
$M_t$	to terminals	$9 \pm 15$ % <sup>3)</sup>	Nm
$a$		$5 * 9,81$	m/s <sup>2</sup>
$m$	approx.	620	g
Case		A 77a	



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