SKNa 402

	V _{(BR)min}	I _{FRMS} = 700 A (maximum value for continuous operation)	C _{max}	R _{min}
10-	V	I _{FAV} = 400 A (sin. 180; T _c = 88 °C)	μF	Ω
	3600	SKNa 402/36		
Corr.	4000	SKNa 402/40		
A SAME	4200	SKNa 402/42		
	4500	SKNa 402/45		
- I - De De Carter and	4600	SKNa 402/46		
	4800	SKNa 402/48		
	5000	SKNa 402/50		
Stud Diode				
	Symbol	Conditions	Values	Units
Avelonate Diada	I _{FAV}	sin. 180 ; T _c = 88 (100) °C	400 (350)	A
Avalanche Diode		$D_{4}(200, T = 45 \circ C; D_{2}/D_{3}$	455 / 655	А
	I _D	P4/200; T _a = 45 °C; B2 / B6		
		K 0,55F; T _a = 35 °C; B2 / B6	585 / 830	A
SKNa 402	I _{FSM}	$T_{vj} = 25 \text{ °C}; 10 \text{ ms}$	7800	A
	104	$T_{vj} = 160 ^{\circ}C; 10 \text{ms}$	6600	A
	i²t	T _{vj} = 25 °C; 8,3 10 ms	300000	A ² s
		T _{vj} = 160 °C; 8,3 10 ms	140000	A²s
Publish Data	V _F	T _{vj} = 25 °C; I _F = 1200 A	max. 1,85	V
	V _(TO)	T _{vj} = 150 °C	max. 1	V
	r _T	$T_{vj} = 150 ^{\circ}\text{C}$	max. 0,8	mΩ
Features	RD	$T_{vj} = 25 \text{ °C}; V_{RD} = V_{(BR)min}$	max. 3000	μA
 Avalanche type reverse 	-	$T_{vj} = 160 \text{ °C; } V_{RD} = V_{(BR)min} ;$	max. 60	mA
characteristic	P _{RSM}	T _{vj} = 160 °C; t _ρ = 10 μs	90	kW
 Reverse voltages up to 5000 V 	R _{th(j-c)}		0,1	K/W
Hermetic metal case with ceramic	R _{th(c-s)}		0,01	K/W
insulator and extra long creepage	T _{vj}		- 40 + 160	°C
distances	T _{stg}		- 40 + 160	°C
 Threaded stud ISO M24 x 1,5 	V _{isol}		-	V~
 Cooling via heatsinks 	M _s	to heatsink	60	Nm
SKN: Anode to stud			530	Ib.in.
	а		5 * 9,81	m/s²
Typical Applications	m	approx.	550	g
 High voltage rectifier diode for 	Case		E 46	
traction and heavy duty				



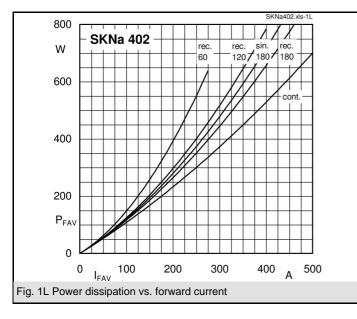
applications

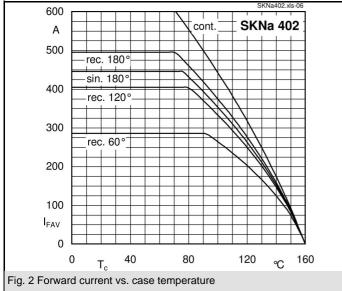
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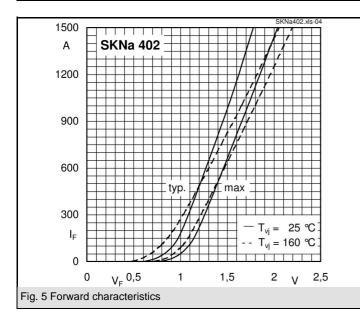
 Series connections for high voltage applications Non-controllable and

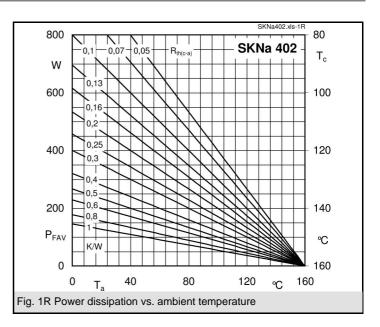
half-controllable rectifiers • Free-wheeling diodes

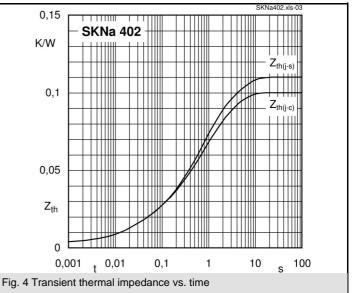
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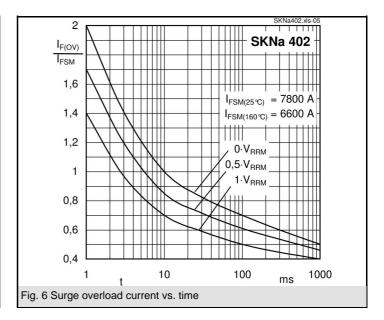




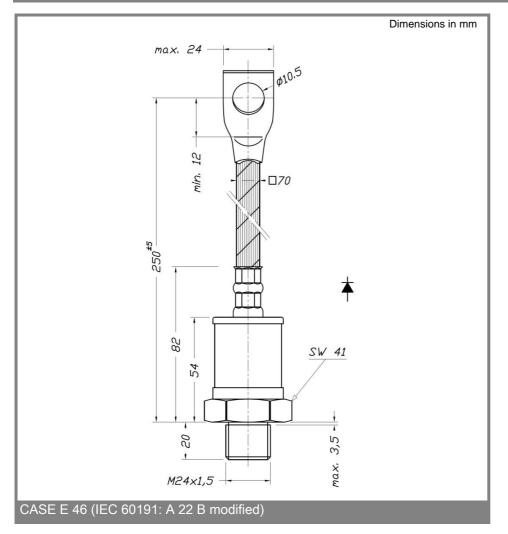








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