SKN 320, SKR 320



V _{RSM}	V _{RRM}	I_{FRMS} = 700 A (maximum value for continuous operation)	
V	V	I_{FAV} = 320 A (sin. 180; T _c = 120 °C)	
400	400	SKN 320/04	SKR 320/04
800	800	SKN 320/08	SKR 320/08
1200	1200	SKN 320/12	SKR 320/12
1400	1400	SKN 320/14	SKR 320/14
1600	1600	SKN 320/16	SKR 320/16

Stud Diode

Rectifier Diode

SKN 320 SKR 320

Features

- Reverse voltages up to 1600 V
- Hermetic metal case with glass
 insulator
- Cooling via heatsinks
- Threaded stud ISO M24 x 1,5 or ³/₄ - 16 UNF 2A²)
- **SKN:** anode to stud
- SKR: cathode to stud

Typical Applications *

- All purpose high power rectifier diodes
- Non-controllable and halfcontrollable rectifiers
- Free-wheeling diodes
- Recommended snubber network: Rc: 1 μF, 20 Ω (P_R = 2W),

 $R_p: 25 \text{ k}\Omega (P_R = 20 \text{ W})$

 Mounting with grease-like thermal compound or joint contact compound
 M24x1,5 is standard, "UNF" should be added in description for ¾ - 16 UNF thread.
 To include silicone sleeve, "C/ ESPAG." Should be added in description.



Symbol	Condition	Values	Units
IFAV	sin. 180 ; T _C = 85 (100) ^o C	454 (400)	А
ID	P 1/120; T _a = 50°C; B2 / B6	263 / 384	Α
	P 1/120F; T _a = 40°C; B2 / B6	557 / 798	A
IFSM	T _{vj} = 25º C ; 10 ms	9000	А
	T _{vj} = 180° C ; 10 ms	8000	Α
i²t	T _{vj} = 25 ^o C ; 8,310 ms	405000	A ² s
	$T_{vj} = 180^{\circ} \text{ C}$; 8,310 ms	320000	A ² s
VF	T _{vj} = 25° C, I _F = 1000 A	max. 1,35	V
V _(TO)	$T_{vj} = 180^{\circ} C$	max. 0,8	V
r⊤	T _{vj} = 180° C	max. 0,45	mΩ
IRD	$T_{vj} = 180^{\circ} C$; $V_{RD} = V_{RRM}$	max. 100	mA
Qrr	$T_{vj} = 160^{\circ}C, -di_{F}/dt = 10 \text{ A}/\mu \text{s}$	300	μC
Rth(i-c)		0,16	K/W
R _{th(c-s)}		0,015	K/W
Tvj		-40+180	°C
Tstg		-40+180	°C
Visol		_	V~
Ms	M24 Stud	60	Nm
	¾-16 UNF Stud	30	Nm
	M24 Stud (lubricated) ¹⁾	45	Nm
	³ / ₄ -16 UNF Stud (lubricated) ¹⁾	22,5	Nm
а		5 * 9,81	m/s ²
m	approx.	500	g
Case		E 16	

SKN 320, SKR 320













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SKN 320, SKR 320





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