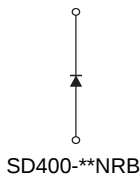


SD400

Discrete Diodes

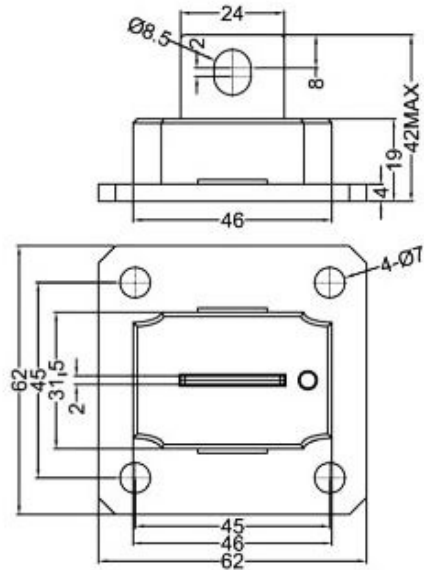


SD400-**-NFB



SD400-**-NRB

Dimensions



	V_{RSM} V	V_{RRM} V
SD400-01NFB / SD400-01NRB	100	100
SD400-02NFB / SD400-02NRB	200	200
SD400-04NFB / SD400-04NRB	400	400
SD400-08NFB / SD400-08NRB	800	800
SD400-10NFB / SD400-10NRB	1000	1000
SD400-12NFB / SD400-12NRB	1200	1200
SD400-16NFB / SD400-16NRB	1600	1600

Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit
$I_F(AV)$	Average Forward Current	Single phase, half wave, 180°conduction, $T_c : 92^\circ C$	400	A
$I_F(RMS)$	R.M.S. Forward Current	Single phase, half wave, 180°conduction, $T_c : 92^\circ C$	628	A
I_{FSM}	Surge Forward Current	$\frac{1}{2}$ cycle, 50Hz/60Hz, peak value, non-repetitive	6400 / 7200	A
I^2t	I^2t	Value for one cycle of surge current	134600	A ² S
T_j	Junction Temperature		-30 to +150	°C
T_{stg}	Storage Temperature		-30 to +125	°C
	Mounting Torque	Mounting (M6)	Recommended Value 2.5-3.9 (25-40)	N·m (kgf·cm)
		Terminal (M8)	Recommended Value 8.8-10 (90-105)	
	Mass		170	g

Symbol	Item	Conditions	Ratings	Unit
I_{RRM}	Repetitive Peak Reverse Current, max.	at V_{DRM} , single phase, half wave, $T_j = 150^\circ C$	15	mA
V_{FM}	Forward Voltage Drop, max.	Forward current 1200A $T_j = 25^\circ C$, Ins.measurement	1.15	V
$R_{th(j-c)}$	Thermal Impedance, max.	Junction to case	0.2	°C/W

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SD400

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