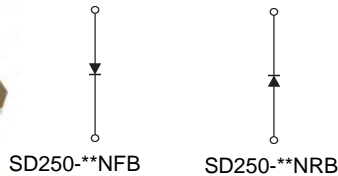
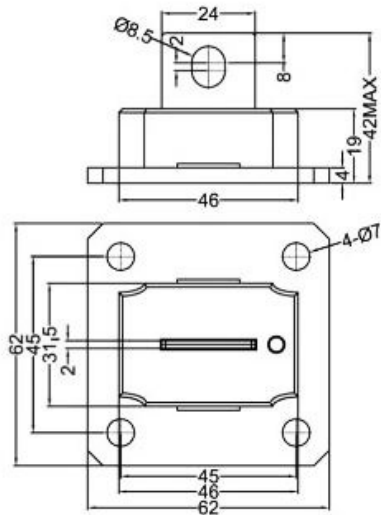


SD&) \$

Discrete Diodes



Dimensions



	V _{RSM} V	V _{RRM} V
SD250-01NFB / SD250-01NRB	100	100
SD250-02NFB / SD250-02NRB	200	200
SD250-04NFB / SD250-04NRB	400	400
SD250-08NFB / SD250-08NRB	800	800
SD250-10NFB / SD250-10NRB	1000	1000
SD250-12NFB / SD250-12NRB	1200	1200
SD250-16NFB / SD250-16NRB	1600	1600

Electrical Characteristics

Symbol	Item	Conditions	Ratings	Unit	
I _{F(AV)}	Average Forward Current	Single phase, half wave, 180° conduction, T _c : 92°C	250	A	
I _{F(RMS)}	R.M.S. Forward Current	Single phase, half wave, 180° conduction, T _c : 92°C	390	A	
I _{FSM}	Surge Forward Current	1/2 cycle, 50Hz/60Hz, peak value, non-repetitive	4000/4500	A	
I ² t	I ² t	Value for one cycle of surge current	84000	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)	4.7 (48)	N·m (kgf·cm)
		Terminal (M8)	Recommended Value 8.8-10 (90-105)	11 (115)	
	Mass		170	g	

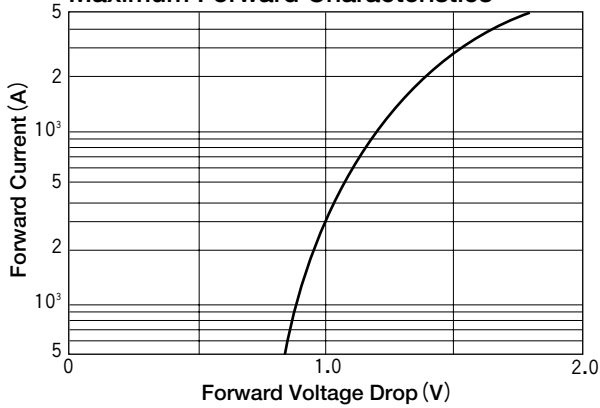
Symbol	Item	Conditions	Ratings	Unit
I _{RRM}	Repetitive Peak Reverse Current, max.	at V _{DRM} , single phase, half wave, T _j =150°C	15	mA
V _{FM}	Forward Voltage Drop, max.	Forward current 800A, T _j =25°C, Inst. measurement	1.15	V
R _{th(j-c)}	Thermal Impedance, max.	Junction to case	0.2	°C/W



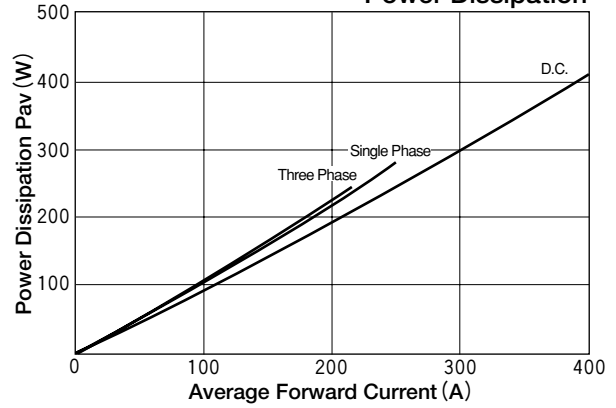
SD&) \$

Discrete Diodes

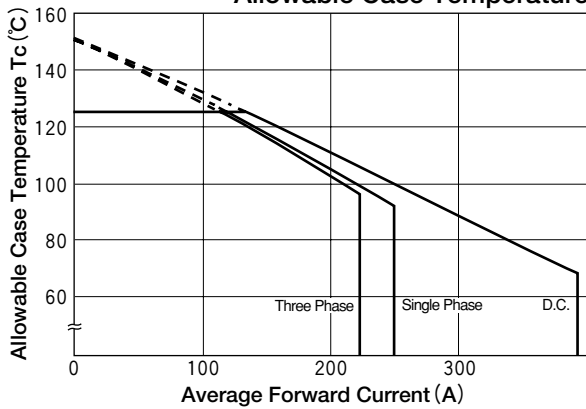
Maximum Forward Characteristics



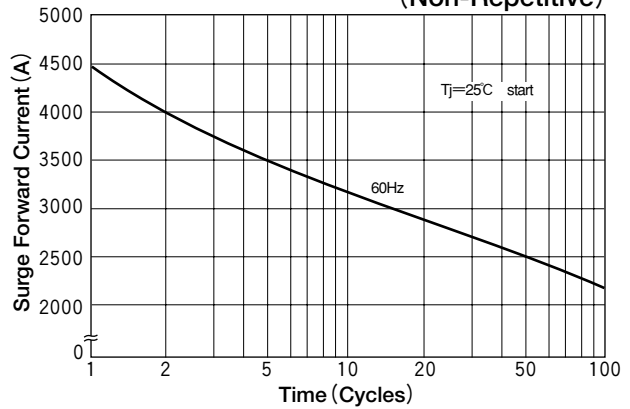
Average Forward Current vs. Power Dissipation



Average Forward Current vs. Allowable Case Temperature



Cycle Surge Forward Current Rating (Non-Repetitive)



Transient Thermal Impedance

