

SHINDENGEN

Schottky Rectifiers (SBD)

Modules

D360SC6M

60V 360A

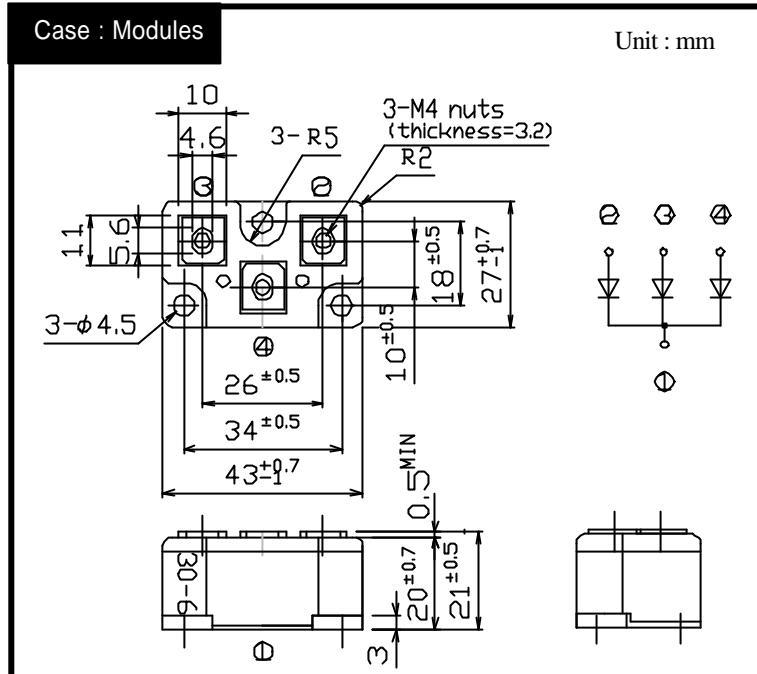
FEATURES

High capacity modules
Low VF
Small j_c

APPLICATION

Big switching power supply
DC/DC converter
Mainframe
IC tester

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (If not specified $T_c=25^\circ C$)

Item	Symbol	Conditions	Ratings	Units
Storage Temperature	T_{stg}		-40 ~ 125	
Operating Junction Temperature	T_j		125	
Maximum Reverse Voltage	V_{RM}		60	V
Repetitive Peak Surge Reverse Voltage	V_{RRSM}	Pulse width 100ms, duty 1/100	65	V
Average Rectified Forward Current	I_o	50Hz sine wave, R-load, Rating for each arm $I_o/3$, $T_c=58^\circ C$	360	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Rating of per arm $T_j=125^\circ C$	1600	A
Mounting Torque	T_{OR}		1.7	N·m

Electrical Characteristics (If not specified $T_c=25^\circ C$)

Item	Symbol	Conditions	Ratings	Units
Forward Voltage	V_F	$I_F=120A$, Pulse measurement, Rating of per arm	Max.0.67	V
Reverse Current	I_R	$V_R=V_{RM}$, Pulse measurement, Rating of per arm	Max.80	mA
Junction Capacitance	C_j	$f=1MHz$, $V_R=10V$, Rating of per arm	TYP 4.4	nF
Thermal Resistance	j_c	junction to case	Max.0.18	/W
	c_f	case to heatsink, Mounting torque = 1.7N·m	Max.0.12	