SHINDENGEN

Schottky Rectifiers (SBD)

Modules

D180SC6M

60V 180A

FEATURES

- High capacity modules
- Low VF
- Small θ jc

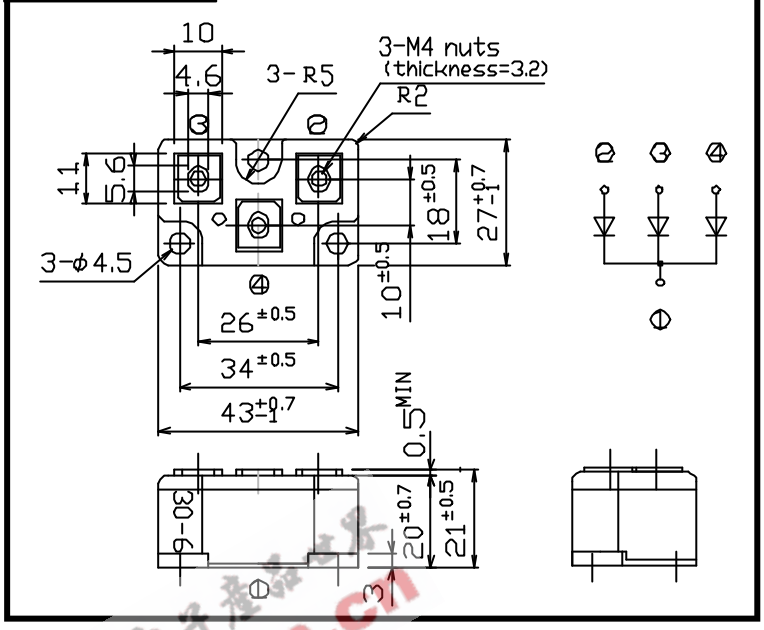
APPLICATION

- Big switching power supply
- DC/DC converter
- Mainframe
- IC tester

OUTLINE DIMENSIONS

Case : Modules

Unit : mm



RATINGS

●Absolute Maximum Ratings (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Units
Storage Temperature	Tstg		-40～125	°C
Operating Junction Temperature	Tj		125	°C
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 diode Io/3, Tc=78°C	180	A
Peak Surge Forward Current	I_{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Rating of per diode Tj=125 °C	800	A
Mounting Torque	TOR		1.7	N·m

●Electrical Characteristics (If not specified Tc=25°C)

Item	Symbol	Conditions	Ratings	Units
Forward Voltage	V_F	IF=60A, Pulse measurement, Rating of per diode	Max.0.67	V
Reverse Current	I_R	V_R=V_{RM}, Pulse measurement, Rating of per diode	Max.40	mA
Junction Capacitance	Cj	f=1MHz, V_R=10V, Rating of per diode	TYP 2.2	nF
Thermal Resistance	θ jc	junction to case	Max.0.25	°C/W
	θ cf	case to heatsink, Mounting torque = 1.7N·m	Max.0.12	

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