

SHINDENGEN

Schottky Rectifiers (SBD)

Modules

D240SC6MH

60V 240A

FEATURES

- High capacity modules
- Low VF
- Small θ_{jc}
- Built-in fuse

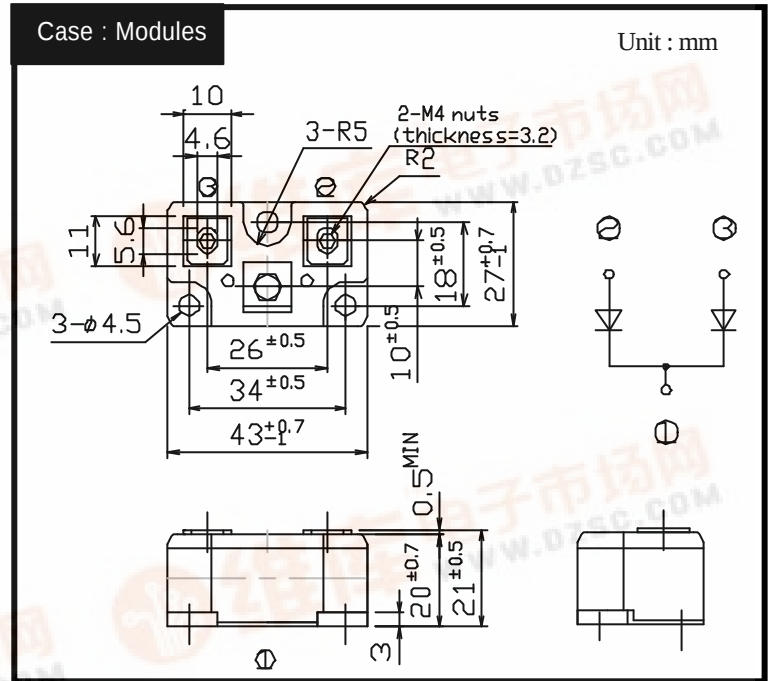
APPLICATION

- 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	
Operating Junction Temperature	Tj		125	
Maximum Reverse Voltage	V _{RM}		60	V
Repetitive Peak Surge Reverse Voltage	V _{RRSM}	Pulse width 100ns, duty 1/100	65	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Rating for each arm I _O /2, Tc=71	240	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Rating of per arm Tj=125	1600	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=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	Cj	f=1MHz, V _R =10V, Rating of per arm	TYP 4.4	nF
Thermal Resistance	θ_{jc}	junction to case	Max.0.23	/W
	θ_{cf}	case to heatsink. Mounting torque = 1.7N·m	Max.0.12	