

D360SC4M

40V 360A

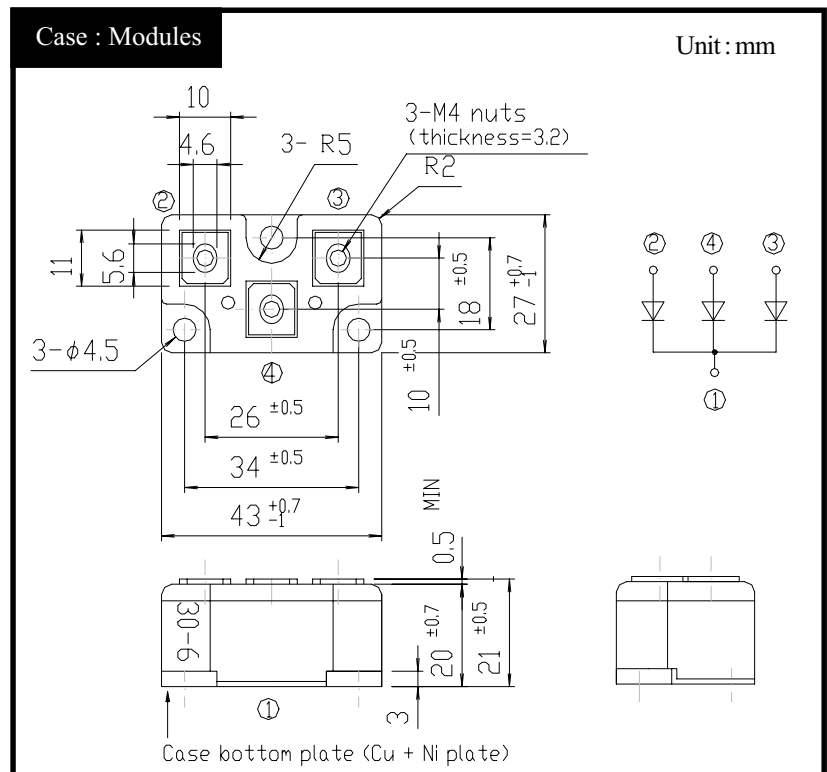
FEATURES

- High capacity modules
- Low VF
- Small θ_{jc}

APPLICATION

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

OUTLINE DIMENSIONS



RATINGS

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

Item	Symbol	Conditions	Ratings	Units
Storage Temperature	T _{stg}		-40~125	°C
Operating Junction Temperature	T _j		125	°C
Maximum Reverse Voltage	V _{RM}		40	V
Repetitive Peak Surge Reverse Voltage	V _{RSM}	Pulse width 100ns, duty 1/100	48	V
Average Rectified Forward Current	I _{FO}	50Hz sine wave, R-load, Rating for each arm I _o /3, T _c =64°C	360	A
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Rating of per arm T _j =125 °C	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	$I_F=120A$, Pulse measurement, Rating of per arm	Max.0.60	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 4.2	nF
Thermal Resistance	θ_{jc}	junction to case	Max.0.18	°C/W
	θ_{cf}	case to heatsink, Mounting torque = 1.7N·m	Max.0.12	