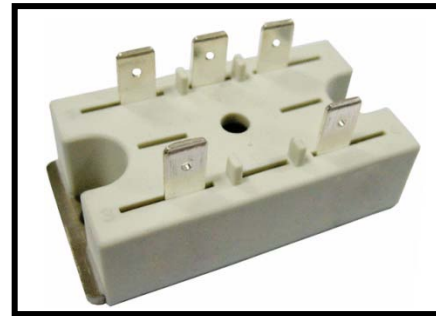


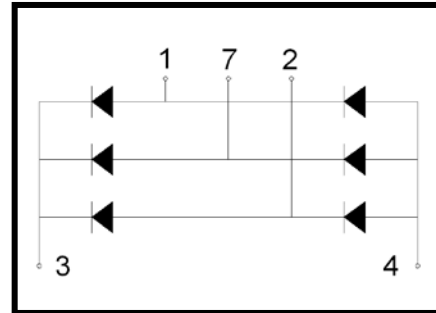
Features

- Package with screw terminals
- Isolation voltage 3000 V~
- Planar passivated chips
- Blocking voltage up to 1600 V
- Low forward voltage drop



Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors



Advantages

- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling

ABSOLUTE MAXIMUM RATINGS

 $T_C=25^{\circ}\text{C}$ unless otherwise specified

Symbol	Test Condition	Value	Unit
V_{RRM}		1600	V
$I_{d(AV)}$	$T_C=100^{\circ}\text{C}$, module	50	A
I_{FSM}	$T_J=45^{\circ}\text{C}$; $V_R=0$ $t=10\text{ms}$ (50Hz),sine $t=8.3\text{ms}$ (60Hz),sine	400	A
		430	A
I^2t	$T_J=45^{\circ}\text{C}$; $V_R=0$ $t=10\text{ms}$ (50Hz),sine $t=8.3\text{ms}$ (60Hz),sine	800	A^2s
		767	A^2s
T_J, T_{STG}		-40 to +150	$^{\circ}\text{C}$
T_{JM}		150	$^{\circ}\text{C}$
V_{ISOL}	50/60Hz RMS, $t=1$ min, $I_{ISOL}\leq 1\text{mA}$	3000	V~□
Md	Mounting torque(M5)	5±15%	N·m
	Terminal connection torque(M5)	5±15%	N·m
Weight	typical	78	g

ELECTRICAL AND THERMAL CHARACTERISTICS

$T_C=25^{\circ}\text{C}$ unless otherwise specified

Symbol	Test Condition	Value	Unit
I _R	V _R = V _{RRM} ; T _J = 25°C	≤0.5	mA
	V _R = V _{RRM} ; T _J =T _{JM}	≤3	mA
V _F	I _F =100A	≤1.8	V
R _{thJC}	per diode; DC current	1.2	K/W
	Per module	0.2	K/W
R _{thCS}	per diode; DC current(typ.)	0.2	K/W

NOTE: Data according to IEC 60747 and refer to a single diode unless otherwise stated.

Package Outline (Dimensions in mm)

