

Thyristor/Diode module

PSKH 352M

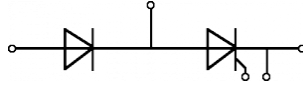
$$I_{T(RMS)} = 2 \times 518 \text{ A}$$

$$I_{T(AV)} = 2 \times 330 \text{ A}$$

$$V_{RRM} = 800-1800 \text{ V}$$

Preliminary Data Sheet

V_{RSM} V	V_{RRM} V	Type
900	800	PSKH352M/08
1100	1000	PSKH 352M/10
1300	1200	PSKH 352M/12
1500	1400	PSKH 352M/14
1700	1600	PSKH 352M/16
1900	1800	PSKH 352M/18



Symbol	Test Conditions	Maximum Ratings
$I_{T(RMS)}$	$T_{VJ} = 125^\circ\text{C}$	half sine 518 A
$I_{T(AV)}$	$T_C = 85^\circ\text{C}$	330 A
I_{TSM}	$T_{VJ} = 125^\circ\text{C}$ t = 10 ms	half sine 11000 A
$\int i^2 dt$	$T_{VJ} = 125^\circ\text{C}$ t = 10 ms	half sine 605 A ² s*10 ³
$(di/dt)_{cr}$	$T_{VJ} = 125^\circ\text{C}$ t _r ≤ 0,5μs	gate source 1,5A 200 A/μs
$(dv/dt)_{cr}$	$T_{VJ} = 125^\circ\text{C}$ V _{DM} =2/3V _{DRM}	1000 V/μs
T_{VJ}		-40 ... + 125 °C
T_{VJM}		125 °C
T_{stg}		-40 ... + 125 °C
V_{ISOL}	50 HZ, RMS t = 1 min I _{ISOL} ≤ 1 mA	min. 3000 V ~
M_d	Terminal connection torque (M10)	12,0 Nm
	Mounting torque (M6)	6,0 Nm
Weight	typ.	820 g

Features

- Isolated mounting base 3000V~
- Pressure contact technology with increased power cycling capability

Applications

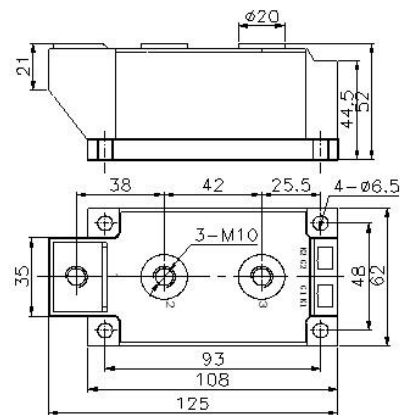
- AC/DC Motor drives
- Various rectifiers
- DC supply for PWM inverter

Advantages

- Easy to mount
- Space and weight savings
- Improved temperature and power cycling capability

Package, style and outline

Dimensions in mm (1mm = 0.0394")



Symbol	Test Conditions	Characteristic Value
$I_{RRM}; I_{DRM}$	$V_R = V_{RRM}$ $T_{VJ} = 125^\circ\text{C}$ $V_D = V_{DRM}$	≤ 25 mA
V_{TM}	$I_{TM} = 550 \text{ A}$ $T_{VJ} = 25^\circ\text{C}$	≤ 1,45 V
V_{TO}	For power-loss calculations only	0,95 V
r_t	$T_{VJ} = 125^\circ\text{C}$	0,36 mΩ
I_{GT}		30-180 mA
V_{GT}	$V_A = 12 \text{ V}$ $T_{VJ} = 25^\circ\text{C}$ $I_A = 1 \text{ A}$	1,0-2,5 V
I_H		20-180 mA
V_{GT}	$V_{DM} = 2/3 V_{DRM}$ $T_{VJ} = 125^\circ\text{C}$	0,2 V
$R_{th(j-c)}$	Per chip; Single side cooled	0,09 °C/W