

CR2PM-8UE

400V - 2A - Thyristor Low Power Use

R07DS1160EJ0100 Rev.1.00 Mar 11, 2014

Features

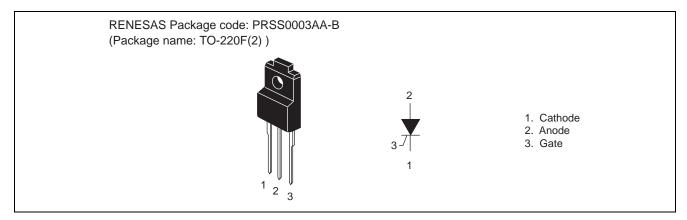
• $I_{T(AV)}: 2 A$

 $\bullet \quad V_{DRM}: 400 \text{ V}$

• I_{GT}: 100 μA

• Planar Type

Outline



Maximum Ratings

Darameter	Cymhol	Voltage class	Unit	
Parameter	Symbol	8		
Repetitive peak reverse voltage	V_{RRM}	400	V	
Non-repetitive peak reverse voltage	V_{RSM}	500	V	
Repetitive peak off-state voltage Note1	V_{DRM}	400	V	

Notes: 1. With gate to cathode resistance $R_{GK} = 1 k\Omega$

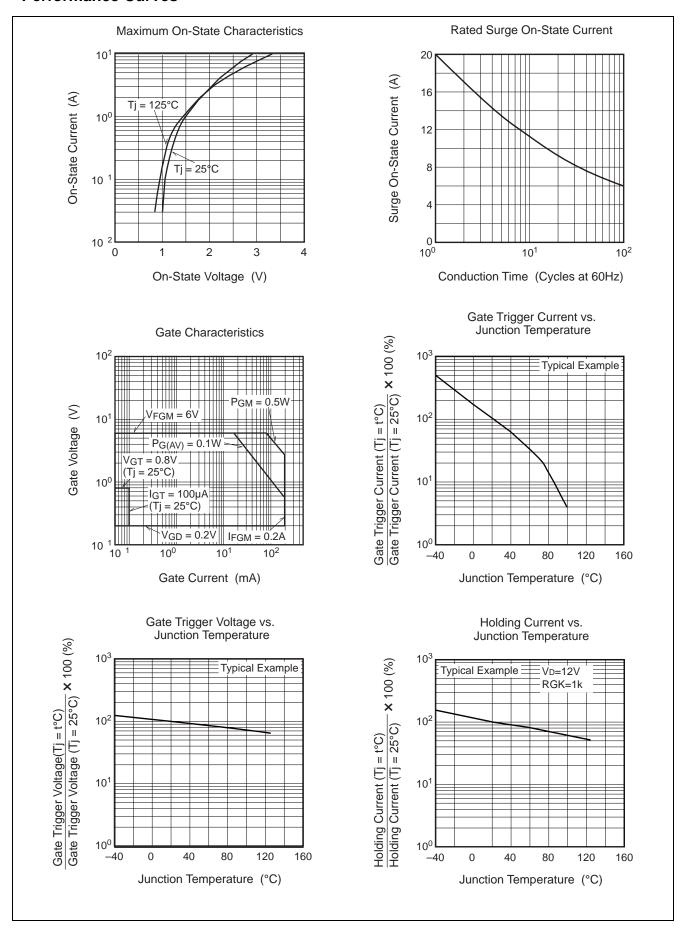
Parameter	Symbol	Ratings	Unit	Conditions
RMS on-state current	I _{T(RMS)}	4	Α	
Average on-state current	I _{T(AV)}	2	Α	Commercial frequency, sine half wave 180° conduction, Tc = 98°C
Surge on-state current	I _{TSM}	20	Α	60Hz sine half wave, 1full cycle, peak value, non-repetitive
I ² t for fusing	l ² t	1.7	A ² s	Value corresponding to 1cycle of half wave 60Hz, surge on-state current
Peak gate power dissipation	P_{GM}	0.5	W	
Average gate power dissipation	P _{G(AV)}	0.1	W	
Peak gate forward voltage	V_{FGM}	6	V	
Peak gate reverse voltage	V_{RGM}	6	V	
Peak gate forward current	I _{FGM}	0.2	Α	
Junction temperature	Tj	- 40 to +125	°C	
Storage temperature	Tstg	- 40 to +125	°C	
Mass	_	2.0	g	Typical value

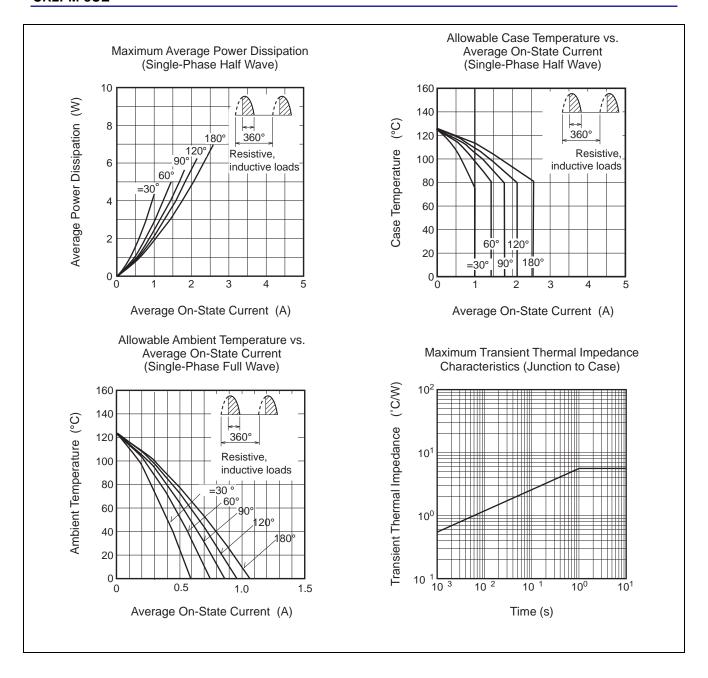
Electrical Characteristics

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test conditions
Repetitive peak reverse current	I _{RRM}	_	_	0.1	mA	Tj = 125°C, V _{RRM} applied
						$R_{GK} = 1 k\Omega$
Repetitive peak off-state current	I _{DRM}	_	_	0.1	mA	Tj = 125°C, V _{DRM} applied
						$R_{GK} = 1 k\Omega$
On-state voltage	V_{TM}	_	_	2.2	V	Tj = 25°C, I _{TM} = 4 A
						instantaneous value
Gate trigger voltage	V_{GT}	_	_	0.8	V	$Tj = 25^{\circ}C, V_D = 6 V, I_T = 0.1 A$
Gate non-trigger voltage	V_{GD}	0.2	_	_	V	$Tj = 125^{\circ}C, V_D = 1/2 V_{DRM}$
						$R_{GK} = 1 k\Omega$
Gate trigger current	I _{GT}	1	_	100	μA	$Tj = 25^{\circ}C, V_D = 6 V, I_T = 0.1 A$
Holding current	I _H	_	_	3.0	mA	Tj = 25°C, V _D = 12 V
						$R_{GK} = 1 k\Omega$
Thermal resistance	R _{th(j-c)}	_	_	5.6	°C/W	Junction to case Note2

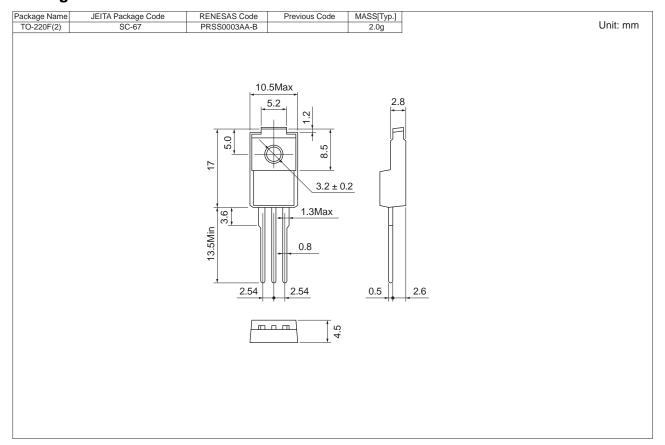
Notes: 2. The contact thermal resistance R_{th} (c-f) in case of greasing is $0.5^{\circ}C/W$.

Performance Curves





Package dimensions



Ordering Information

Orderable Part Number	Packing	Quantity	Remark
CR2PM-8UE#B00	Bag	100 pcs.	Straight type
CR2PM-8UE-□□#B00	Tube	50 pcs.	□□:Lead forming type

Note: Please confirm the specification about the shipping in detail.

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Renesas Electronics America Inc. 2801 Scott Boulevard Santa Clara, CA 95050-2549, U.S.A. Tel: +1-408-588-6000, Fax: +1-408-588-6130

Renesas Electronics Canada Limited 1101 Nicholson Road, Newmarket, Ontario L3Y 9C3, Canada Tel: +1-905-898-5441, Fax: +1-905-898-3220

Renesas Electronics Europe Limited Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, U.K Tel: +44-1628-585-100, Fax: +44-1628-585-900

Renesas Electronics Europe GmbH

Arcadiastrasse 10, 40472 Düsseldorf, Germany Tel: +49-211-6503-0, Fax: +49-211-6503-1327

Renesas Electronics (China) Co., Ltd. Room 1709, Quantum Plaza, No.27 ZhiChunLu Haidian District, Beijing 100191, P.R.China Tei: +86-10-2035-1155, Fax: +86-10-8235-7679

Renesas Electronics (Shanghai) Co., Ltd.
Unit 301, Tower A, Central Towers, 555 Langao Road, Putuo District, Shanghai, P. R. China 200333
Tel: +86-21-2226-0888, Fax: +86-21-2226-0999

Renesas Electronics Hong Kong Limited
Unit 1601-1613, 161F., Tower 2, Grand Century Place, 193 Prince Edward Road West, Mongkok, Kowloon, Hong Kong
Tel: +852-2856-5688, Fax: +852 2886-9022/9044

Renesas Electronics Taiwan Co., Ltd. 13F, No. 363, Fu Shing North Road, Taipei 105-Tel: +886-2-8175-9600, Fax: +886 2-8175-9670 . ipei 10543, Taiwan

Renesas Electronics Singapore Pte. Ltd. 80 Bendemeer Road, Unit #06-02 Hyflux Innovation Centre, Singapore 339949 Tel: +65-6213-0200, Fax: +65-6213-0300

Renesas Electronics Malaysia Sdn.Bhd.
Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No. 18, Jln Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia
Tel: +60-3-7955-9390, Fax: +60-3-7955-9510

Renesas Electronics Korea Co., Ltd. 12F., 234 Teheran-ro, Gangnam-Ku, Seoul, 135-920, Korea Tel: +82-2-558-3737, Fax: +82-2-558-5141

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