

BCR2PM-12RE

600V - 2A - Triac

Low Power Use

R07DS1239EJ0200 (Previous: REJ03G1468-0100) Rev.2.00 Dec 24, 2014

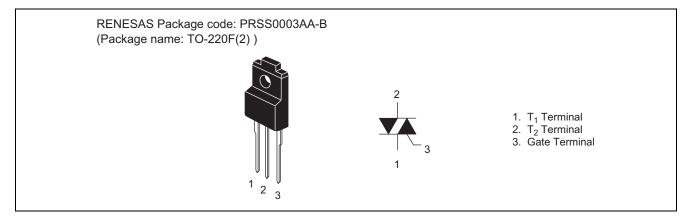
Features

I_{T (RMS)}: 2 A
 V_{DRM}: 600 V

• I_{RGTI} , $I_{RGT III}$: 10 mA

- Insulated Type
- Planar Passivation Type
- The product guaranteed maximum junction temperature 150°C.

Outline



Applications

Electric rice cooker, electric pot, and controller for other heater

Precautions on Usage

When the BCR2PM-12RE is used, do not attach the heat radiating fin.

Maximum Ratings

Parameter	Symbol	Voltage class	Unit	
Farameter	Syllibol	12	Onit	
Repetitive peak off-state voltageNote1	V_{DRM}	600	V	
Non-repetitive peak off-state voltage ^{Note1}	V_{DSM}	720	V	

BCR2PM-12RE

Parameter	Symbol	Ratings	Unit	Conditions
RMS on-state current	I _{T (RMS)}	2	А	Commercial frequency, sine full wave 360° conduction
Surge on-state current	Ітѕм	10	А	60Hz sinewave 1 full cycle, peak value, non-repetitive
I ² t for fusing	l ² t	0.41	A ² s	Value corresponding to 1 cycle of half wave 60Hz, surge on-state current
Peak gate power dissipation	P _{GM}	1	W	
Average gate power dissipation	P _{G (AV)}	0.1	W	
Peak gate voltage	V_{GM}	6	V	
Peak gate current	I _{GM}	1	А	
Junction temperature	Tj	- 40 to +150	°C	
Storage temperature	Tstg	- 40 to +150	°C	
Mass	_	2.0	g	Typical value

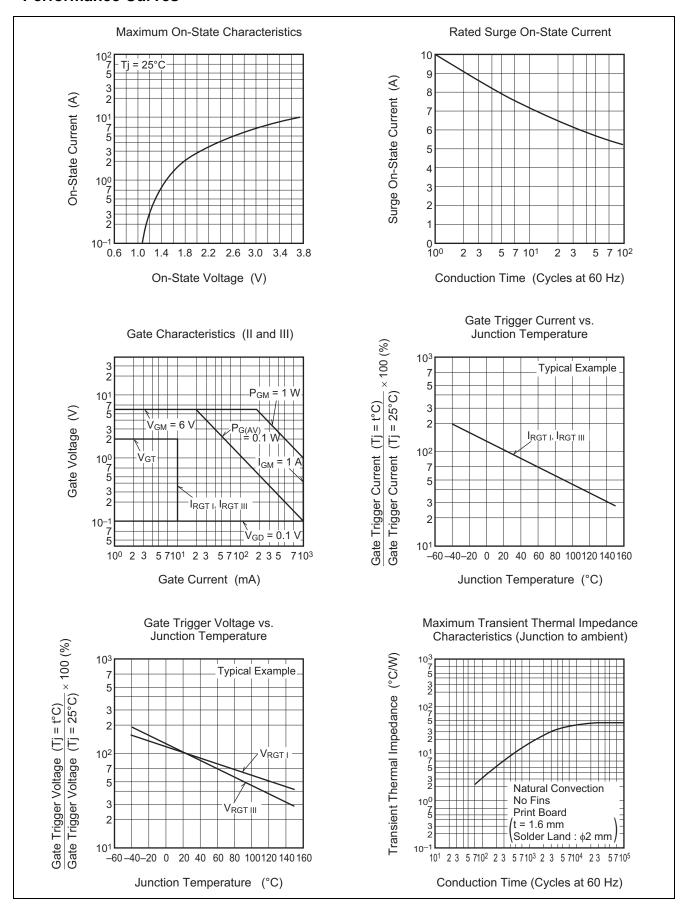
Notes: 1. Gate open.

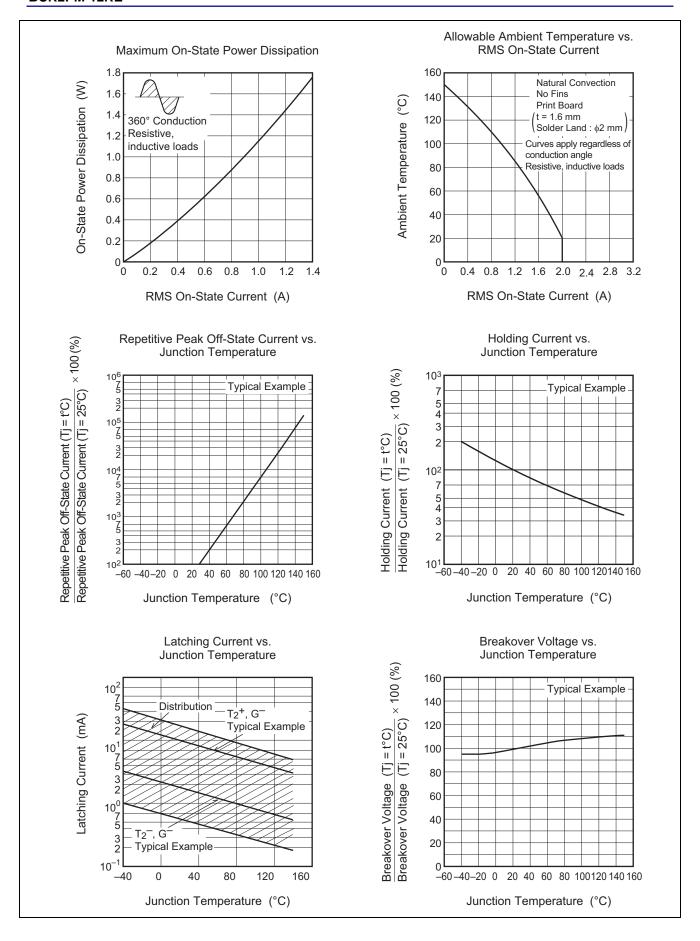
Electrical Characteristics

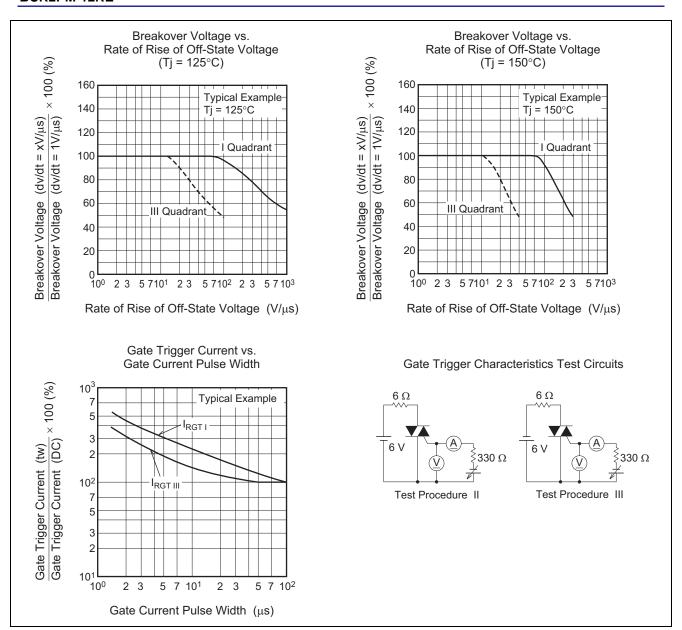
Parameter		Symbol	Min.	Тур.	Max.	Unit	Test conditions	
Repetitive peak off-state current		I _{DRM}	_	_	1.0	mA	Tj = 150°C, V _{DRM} applied	
On-state voltage		V_{TM}	_	_	1.6	V	Tj = 25°C, I _{TM} = 1.5 A, Instantaneous measurement	
Gate trigger voltage ^{Note2}	II	V_{RGTI}	_	_	2.0	V	$Tj = 25^{\circ}C, V_D = 6 V, R_L = 6 \Omega,$	
	III	V_{RGTIII}	_	_	2.0	V	$R_G = 330 \Omega$	
Gate trigger current ^{Note2}	II	I _{RGTI}	_	_	10	mA	$Tj = 25^{\circ}C, V_D = 6 \text{ V}, R_L = 6 \Omega,$ $R_G = 330 \Omega$	
	III	I _{RGTIII}	_	_	10	mA		
Gate non-trigger voltage	•	V _{GD}	0.1	_	_	V	Tj = 150°C, V _D = 1/2 V _{DRM}	
Thermal resistance		R _{th (j-a)}	_	_	45	°C/W	Junction to ambient, Natural convection	

Notes: 2. Measurement using the gate trigger characteristics measurement circuit.

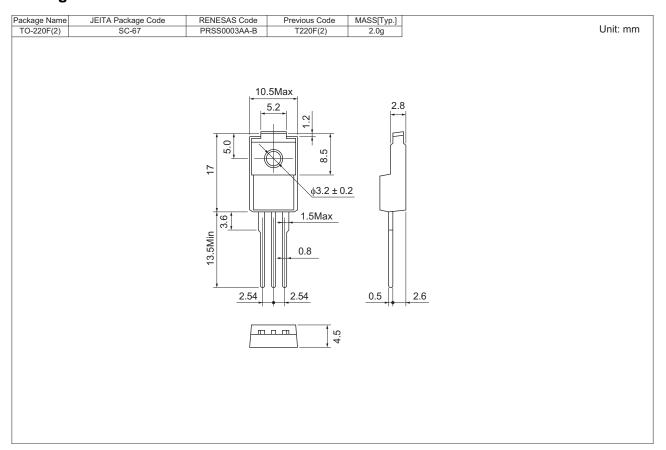
Performance Curves







Package Dimensions



Order Code

Lead form	Standard packing	Quantity	Standard order code	Standard order code example
Straight type	Vinyl sack	100	Type name	BCR2PM-12RE
Lead form	Plastic Magazine (Tube)	50	Type name – Lead forming code	BCR2PM-12RE-A8

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

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