

CR3PM-8ME

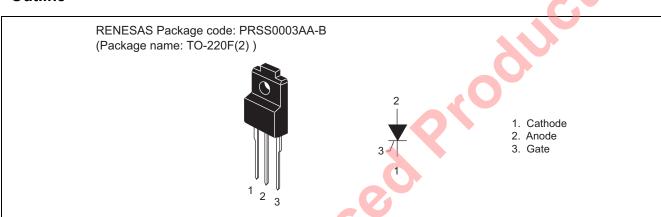
400V - 3A - Thyristor Low Power Use R07DS1231EJ0200 Rev.2.00 Dec 24, 2014

Features

V_{DRM}: 400 v
 I_{GT}: 30 mA

Planar Type

Outline



Maximum Ratings

Parameter	Cymbol	Voltage class	Unit	
Farameter	Symbol	8	Offit	
Repetitive peak reverse voltage	V _{RRM}	400	V	
Non-repetitive peak reverse voltage	V_{RSM}	500	V	
Repetitive peak off-state voltage	V _{DRM}	400	V	

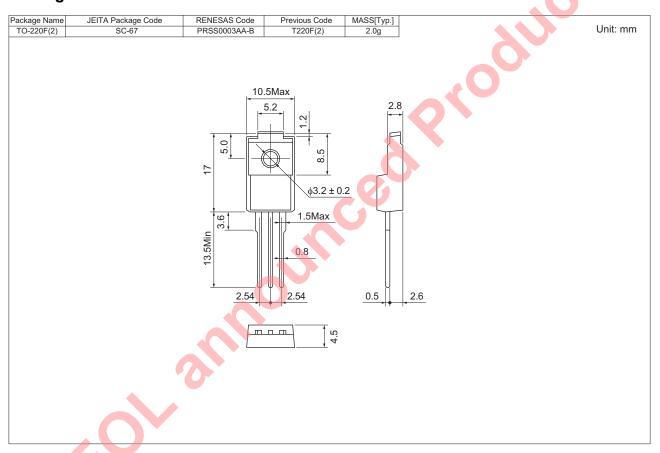
Parameter	Symbol	Ratings	Unit	Conditions
RMS on-state current	I _{T(RMS)}	4.7	Α	
Average on-state current	I _{T(AV)}	3	Α	Commercial frequency, sine half wave 180° conduction, Tc = 85°C
Surge on-state current	Ітѕм	70	Α	60Hz sine half wave, 1full cycle, peak value, non-repetitive
I ² t for fusing	l²t	20	A ² s	Value corresponding to 1cycle of half wave 60Hz, surge on-state current
Peak gate power dissipation	P _{GM}	3	W	
Average gate power dissipation	P _{G(AV)}	0.5	W	
Peak gate forward voltage	V _{FGM}	10	V	
Peak gate reverse voltage	V _{RGM}	10	V	
Peak gate forward current	I _{FGM}	0.5	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}	_	_	2.5	mA	Tj = 125°C, V _{RRM} applied
Repetitive peak off-state current	I _{DRM}	_	_	2.5	mA	Tj = 125°C, V _{DRM} applied
On-state voltage	V _{TM}	_	_	2.0	V	Tj = 25°C, I _{TM} = 3 A
						instantaneous value
Gate trigger voltage	V_{GT}		_	2.0	V	$Tj = 25^{\circ}C, V_D = 6 V, I_T = 1 A$
Gate non-trigger voltage	V_{GD}	0.2	_	_	V	$Tj = 125^{\circ}C, V_D = 1/2 V_{DRM}$
Gate trigger current	I_{GT}	1	_	30	mA	$Tj = 25^{\circ}C, V_D = 6 V, I_T = 1 A$
Holding current	lμ		30	_	mA	Tj = 25°C, V _D = 12 V
Thermal resistance	R _{th(j-c)}	_	_	4.9	°C/W	Junction to case Note1

Notes: 1. The contact thermal resistance Rth (c-f) in case of greasing is 0.5°C/W.

Package dimensions



Ordering Information

Orderable Part Number	Packing	Quantity	Remark
CR3PM-8ME#B00	Bag	100 pcs.	Straight type

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

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