

Thyristor

Medium Power Use

REJ03G0345-0200 Rev.2.00 Mar.01.2005

Features

I_{T (AV)}: 5 A
 V_{DRM}: 600 V
 I_{GT}: 100 μA

Non-Insulated Type

Glass Passivation Type

Outline

PRSS0004ZA-A (Package name: MP-3A)





1. Cathode

2. Anode

3. Gate

4. Anode

Applications

Switching mode power supply, regulator for autocycle, protective circuit for TV sets, VCRs, and printers, igniter for autocycle, electric tool, strobe flasher, and other general purpose control applications

Maximum Ratings

Parameter	Symbol	Voltage class	Unit	
Farameter	Symbol	12	OIII	
Repetitive peak reverse voltage	V_{RRM}	600	Vend	
Non-repetitive peak reverse voltage	V_{RSM}	720	1 075V	
DC reverse voltage	V _{R (DC)}	480	V	
Repetitive peak off-state voltage ^{Note1}	V _{DRM}	600	V	
DC off-state voltage ^{Note1}	V _{D (DC)}	480	V	



查询"CRSAS-TZ-T13"供应了 RMS on-state current	Symbol	Ratings	Unit	Conditions
RMS on-state current	I _{T (RMS)}	7.8	А	
Average on-state current	I _{T (AV)}	5	А	Commercial frequency, sine half wave 180° conduction, Tc = 88°C
Surge on-state current	I _{TSM}	90	А	60Hz sine half wave 1 full cycle, peak value, non-repetitive
I ² t for fusing	l ² t	33	A ² s	Value corresponding to 1 cycle 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}	0.3	А	
Junction temperature	Tj	- 40 to +125	°C	
Storage temperature	Tstg	- 40 to +125	°C	
Mass	_	0.26	g	Typical value

Notes: 1. With gate to cathode resistance R_{GK} = 220 Ω .

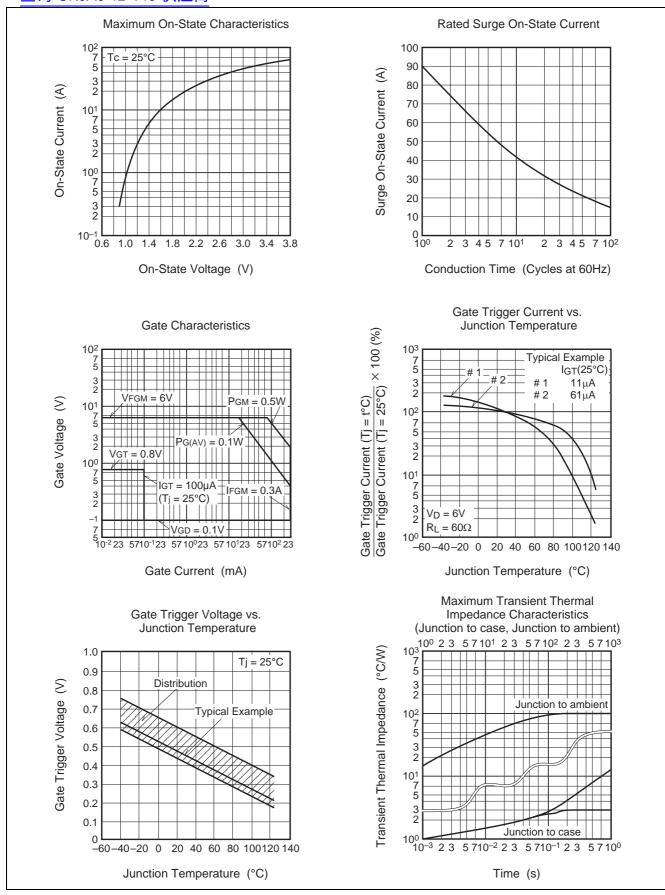
Electrical Characteristics

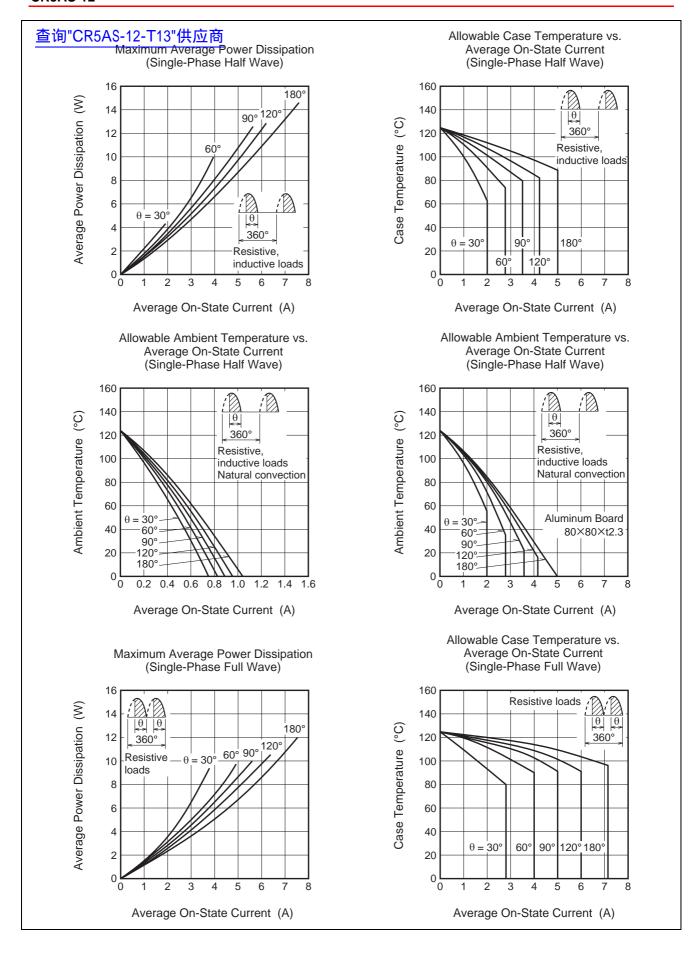
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test conditions
Repetitive peak reverse current	I _{RRM}	_	_	2.0	mA	Tj = 125°C, V_{RRM} applied, R_{GK} = 220 Ω
Repetitive peak off-state current	I _{DRM}	_	_	2.0	mA	$Tj = 125$ °C, V_{DRM} applied, $R_{GK} = 220 \Omega$
On-state voltage	V _{TM}	_	_	1.8	V	Tc = 25°C, I _{TM} = 15 A, instantaneous value
Gate trigger voltage	V_{GT}	_	_	0.8	V	$Tj = 25$ °C, $V_D = 6$ V, $I_T = 0.1$ A
Gate non-trigger voltage	V_{GD}	0.1	_	_	V	$Tj = 125$ °C, $V_D = 1/2 V_{DRM}$, $R_{GK} = 220 \Omega$
Gate trigger current	I _{GT}	1	_	100 ^{Note3}	μΑ	$Tj = 25$ °C, $V_D = 6$ V, $I_T = 0.1$ A
Holding current	I _H	_	3.5	_	mA	$Tj = 25$ °C, $V_D = 12 V$, $R_{GK} = 220 \Omega$
Thermal resistance	R _{th (j-c)}	_	_	3.0	°C/W	Junction to case ^{Note2}

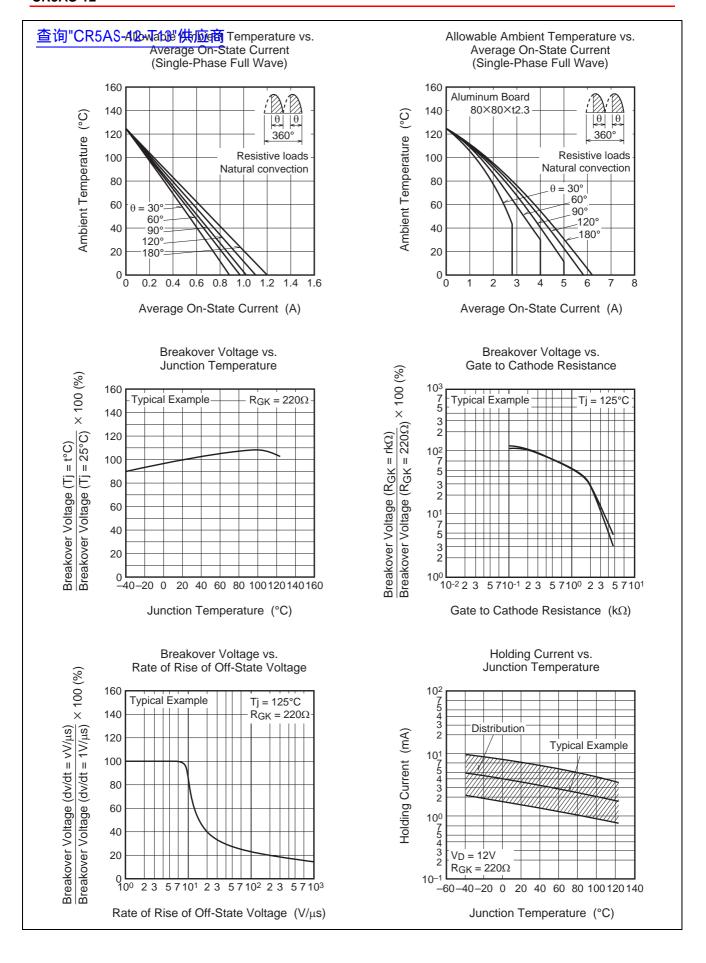
Notes: 2. The measurement point for case temperature is at anode tab.

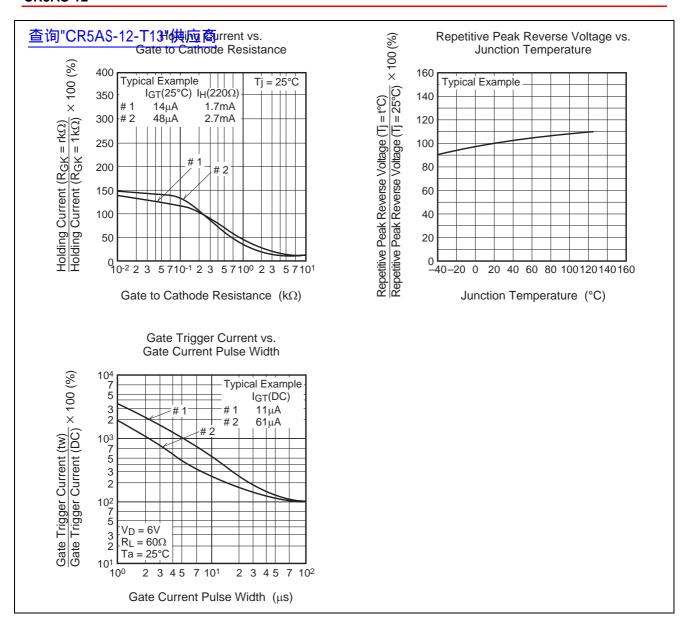
^{3.} If special value of I_{GT} is required, I_{GT} from 20 to 100 μA is possible. (I_{GT} item: E)

Performance Curve 供应商

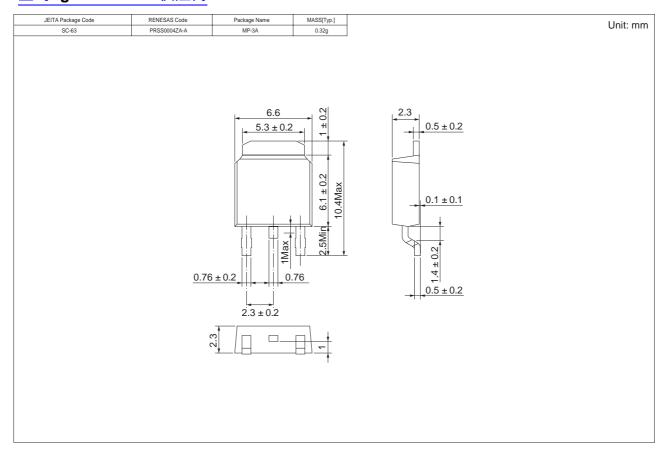








PackagesDimension供应商



Order Code

Lead form	Standard packing	Quantity	Standard order code	Standard order code example
Surface-mounted type	Taping	3000	Type name – T +Direction (1 or 2) +3	CR5AS-12-T13
Surface-mounted type	Tube	75	Type name	CR5AS-12

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

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