

查询"CR8PM-12"供应度 CR8PM-12

Thyristor

Medium Power Use

REJ03G0359-0100 Rev.1.00 Aug.20.2004

Features

I_{T (AV)}: 8 A
 V_{DRM}: 600 V
 I_{GT}: 15 mA

Viso: 1500 V

• Insulated Type

Planar Passivation Type

• UL Recognized : Yellow Card No. E223904

File No. E80271

Outline

TO-220F





- 1. Cathode
- 2. Anode
- 3. Gate

Applications

Switching mode power supply, regulator for autocycle, motor control, heater control, and other general purpose control applications

Maximum Ratings

Parameter	Cumbal	Voltage class	W D T Unit
	Symbol	12	
Repetitive peak reverse voltage	V _{RRM}	600	V
Non-repetitive peak reverse voltage	V _{RSM}	720	V
DC reverse voltage	V _{R(DC)}	480	V
Repetitive peak off-state voltage	V_{DRM}	600	V
DC off-state voltage	$V_{D(DC)}$	480	V



CR8PM-12

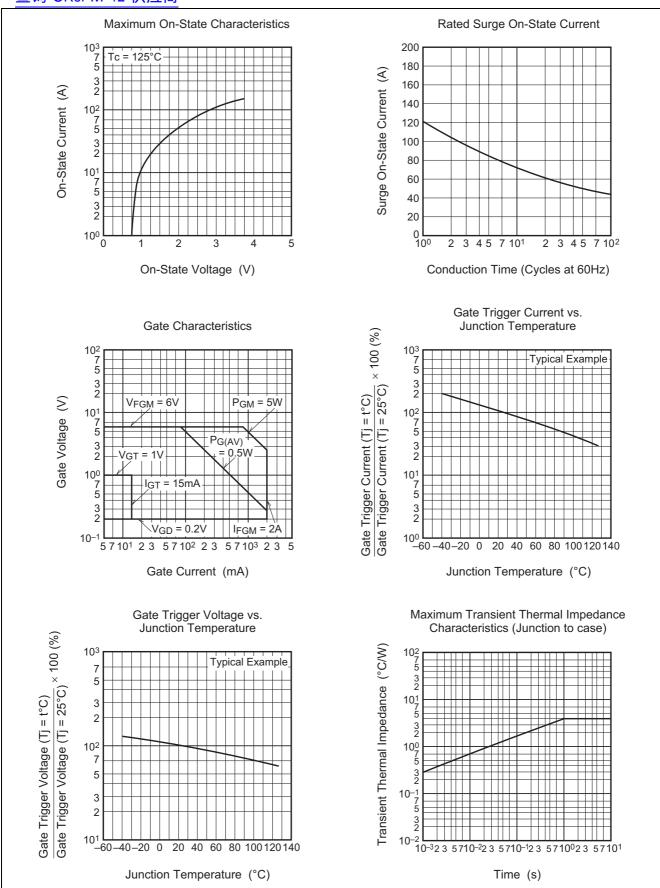
查询"CPAMPETO", 供应商	Symbol	Ratings	Unit	Conditions
查询"CR \$P\$M=19 "供应商 RMS on-state current	I _{T (RMS)}	12.6	Α	
Average on-state current	I _{T (AV)}	8	А	Commercial frequency, sine half wave 180° conduction, Tc = 81°C
Surge on-state current	I _{TSM}	120	А	60Hz sine half wave 1 full cycle, peak value, non-repetitive
I ² t for fusing	l ² t	60	A ² s	Value corresponding to 1 cycle of half wave 60Hz, surge on-state current
Peak gate power dissipation	P _{GM}	5	W	
Average gate power dissipation	P _{G (AV)}	0.5	W	
Peak gate forward voltage	V_{FGM}	6	V	
Peak gate reverse voltage	V_{RGM}	10	V	
Peak gate forward current	I _{FGM}	2	Α	
Junction temperature	Tj	- 40 to +125	°C	
Storage temperature	Tstg	- 40 to +125	°C	
Mass	_	2.0	g	Typical value
Isolation voltage	Viso	1500	V	Ta = 25°C, AC 1 minute, each terminal to case

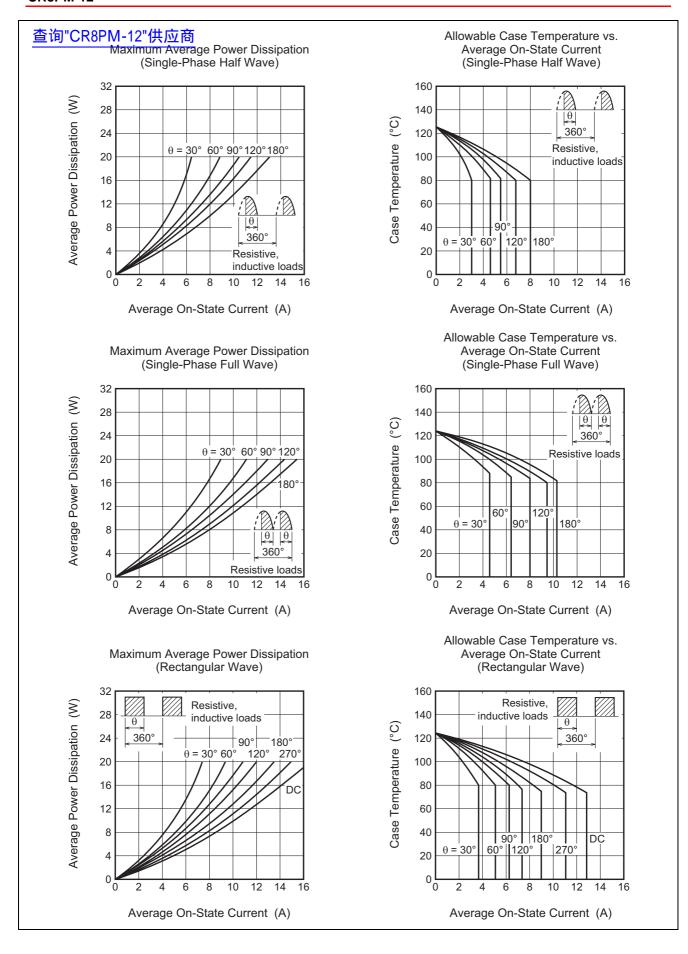
Electrical Characteristics

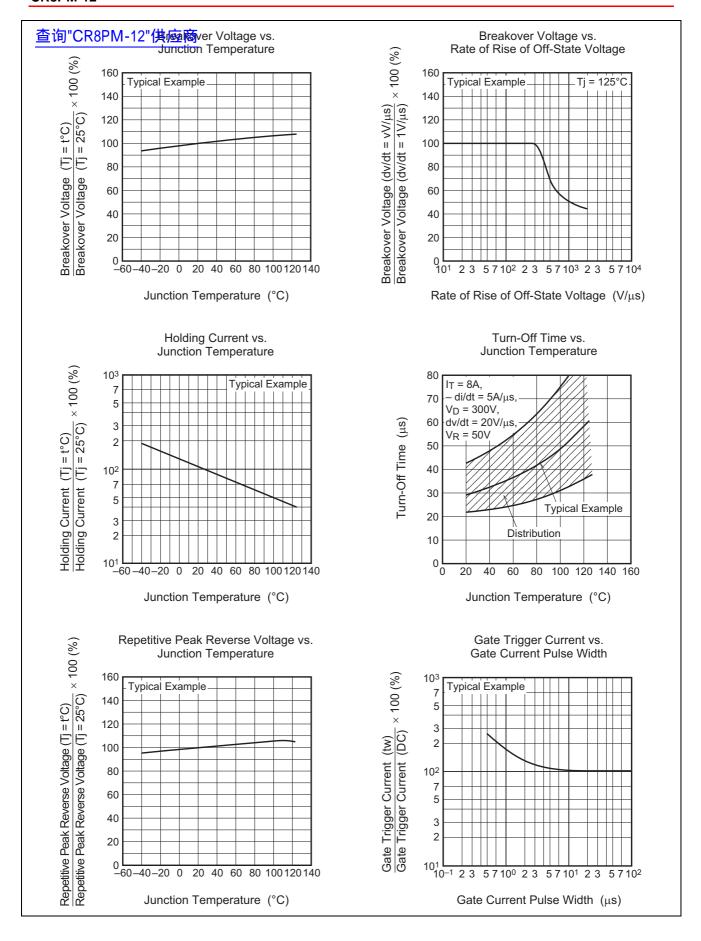
Dovometer	Cumbal	Rated value			I I m i t	Toot conditions	
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test conditions	
Repetitive peak reverse current	I _{RRM}	_	_	2.0	mA	Tj = 125°C, V _{RRM} applied	
Repetitive peak off-state current	I _{DRM}	_	_	2.0	mA	Tj = 125°C, V _{DRM} applied	
On-state voltage	V_{TM}	_	_	1.4	V	$Tc = 25^{\circ}C, I_{TM} = 25 A,$	
						instantaneous value	
Gate trigger voltage	V_{GT}	_	_	1.0	V	$Tj = 25$ °C, $V_D = 6$ V, $I_T = 1$ A	
Gate non-trigger voltage	V_{GD}	0.2	_	_	V	$Tj = 125$ °C, $V_D = 1/2 V_{DRM}$	
Gate trigger current	I _{GT}	_	_	15	mA	$Tj = 25$ °C, $V_D = 6$ V, $I_T = 1$ A	
Holding current	lμ	_	15	_	mA	Tj = 25°C, V _D = 12 V	
Thermal resistance	R _{th (j-c)}	_	_	3.7	°C/W	Junction to case ^{Note1}	

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

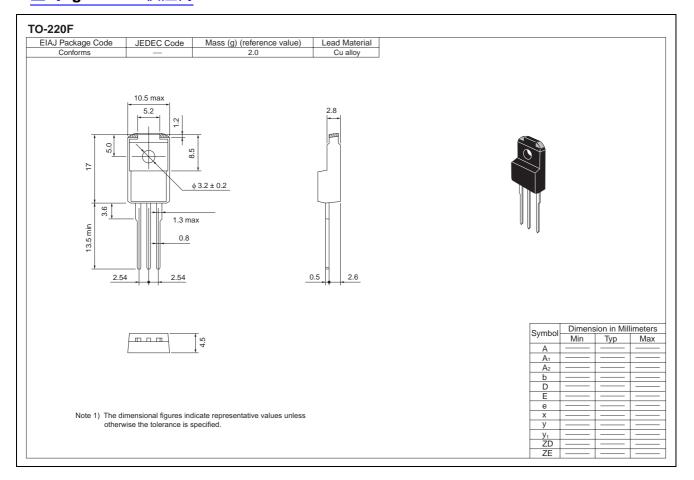
Parformance Cutyes商







P查试验。Bimens统有数



Order Code

Lead form	Standard packing	Quantity	Standard order code	Standard order code example
Straight type	Vinyl sack	100	Type name +A	CR8PM-12A
Lead form	Plastic Magazine (Tube)	50	Type name +A – Lead forming code	CR8PM-12A-A8

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

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