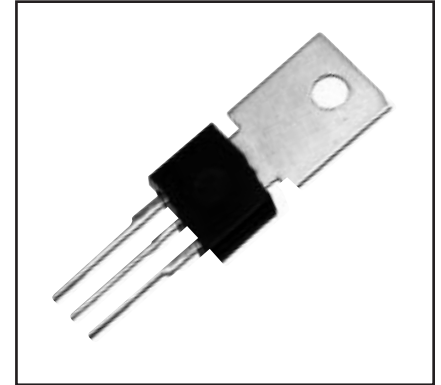
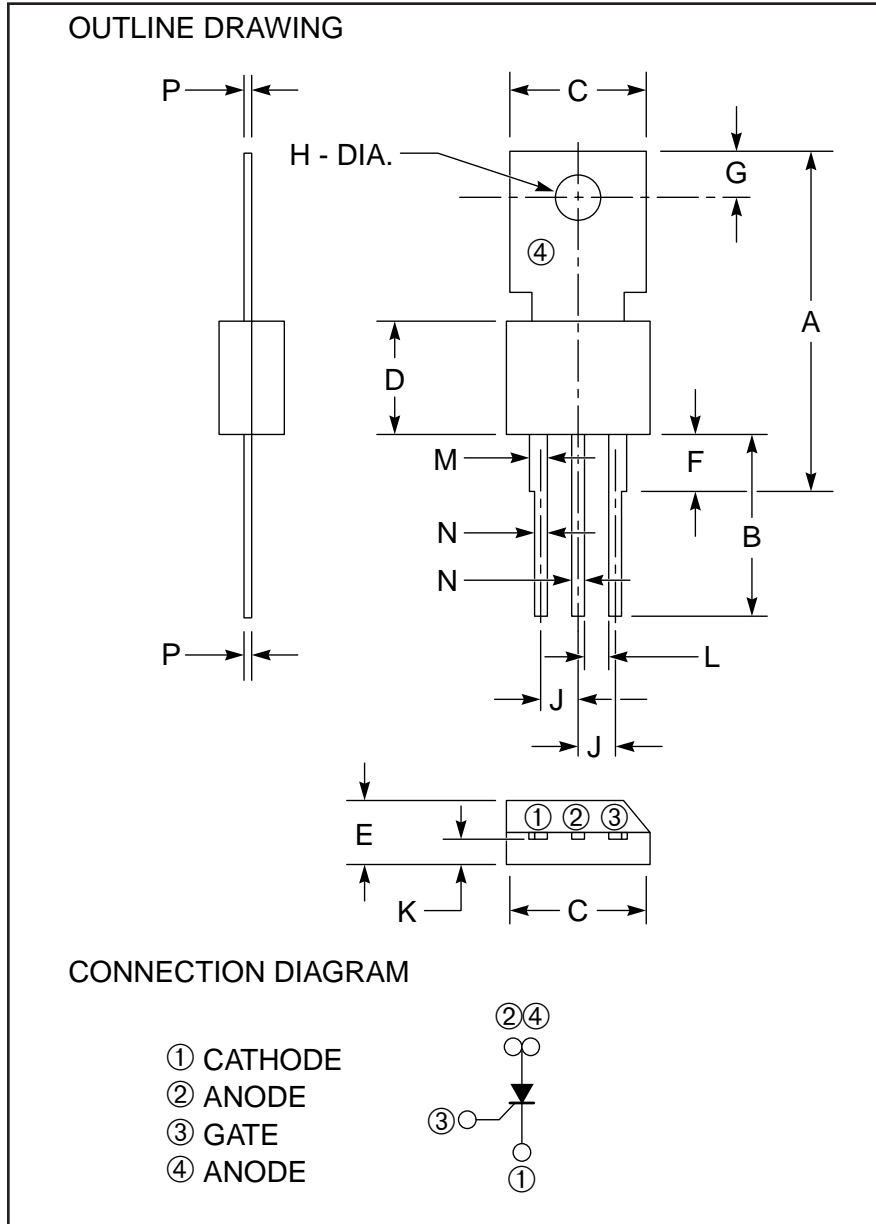


### Lead-mount, Phase Control SCR 2 Amperes/400-600 Volts



**Description:**

The Powerex CR2AM Lead-mount Phase Control SCRs are glass passivated thyristors for use in low power control and rectification. These devices are molded silicone plastic types.

**Features:**

- Glass Passivated

**Applications:**

- Ground Fault Interrupters
- Igniters
- Static Switch
- Motor Control

**Ordering Information:**

Example: Select the complete six or seven digit module part number you desire from the table - i.e. CR2AM-12 is a 600 Volt, 2 Ampere Phase Control SCR.

Outline Drawing (Conforms to TO-202)

Dimensions	Inches	Millimeters
A	0.93 ± 0.02	23.7 ± 0.5
B	0.47 Min.	12.0 Mon.
C	0.39 Max.	10.0 Max.
D	0.31 Max.	8.0 Max.
E	0.18 Max.	4.5 Max.
F	0.16 Max.	4.0 Max.
G	0.126 ± 0.008	3.2 ± 0.2

Dimensions	Inches	Millimeters
H	0.126 ± 0.004 Dia.	3.2 ± 0.1 Dia.
J	0.10	2.5
K	0.061	1.55
L	0.06	1.5
M	0.05	1.2
N	0.03	0.8
P	0.02	0.5

Type	V <sub>DRM</sub> /V <sub>RRM</sub> Volts	Code
CR2AM	400	-8
	600	-12



Powerex, Inc., 200 Hillis Street, Youngwood, Pennsylvania 15697-1800 (412) 925-7272

**CR2AM**

**Lead-mount, Phase Control SCR**

2 Amperes/400-600 Volts

**Absolute Maximum Ratings,  $T_a = 25\text{ }^\circ\text{C}$  unless otherwise specified**

Ratings	Symbol	CR2AM-8	CR2AM-12	Units
Repetitive Peak Off-state Voltage	$V_{DRM}$	400	600	Volts
Repetitive Peak Reverse Voltage	$V_{RRM}$	400	600	Volts
Non-repetitive Peak Reverse Voltage	$V_{RSM}$	500	720	Volts
DC Reverse Voltage	$V_{R(DC)}$	320	480	Volts
DC Forward Voltage	$V_{D(DC)}$	320	480	Volts
RMS On-state Current	$I_{T(RMS)}$	3.15	3.15	Amperes
Average On-state Current (Nominal, See Graphs) $T_a = 75\text{ }^\circ\text{C}$	$I_{T(avg)}$	2.0	2.0	Amperes
Non-repetitive Peak Surge, On-state Current One Cycle (60 Hz)	$I_{TSM}$	20	20	Amperes
$I^2t$ for Fusing, $t = 8.3\text{ msec}$	$I^2t$	1.6	1.6	$A^2\text{sec}$
Peak Gate Power Dissipation	$P_{GM}$	0.5	0.5	Watts
Average Gate Power Dissipation	$P_{G(avg)}$	0.1	0.1	Watts
Peak Forward Gate Current	$I_{FGM}$	0.3	0.3	Amperes
Peak Forward Gate Voltage	$V_{FGM}$	6	6	Volts
Peak Reverse Gate Voltage	$V_{RGM}$	6	6	Volts
Storage Temperature	$T_{stg}$	-40 to 125	-40 to 125	$^\circ\text{C}$
Operating Temperature	$T_j$	-40 to 125	-40 to 125	$^\circ\text{C}$
Weight	-	1.6	1.6	Grams



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**CR2AM**

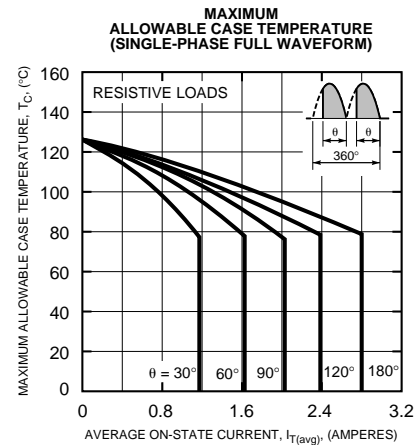
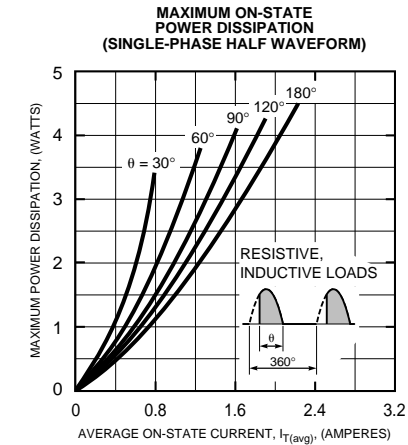
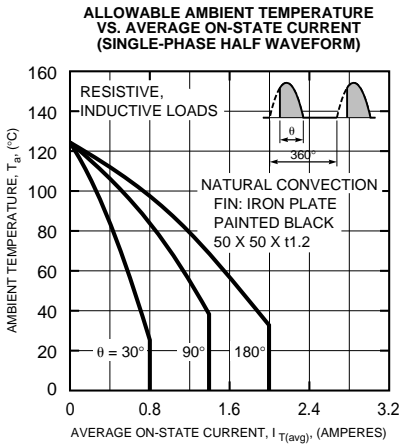
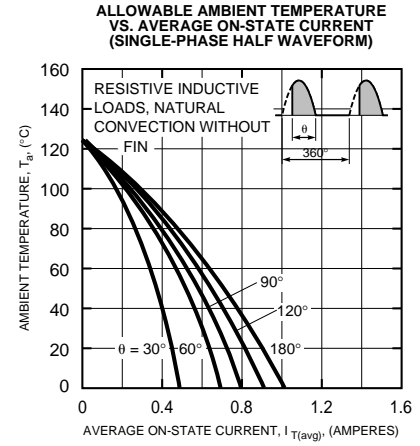
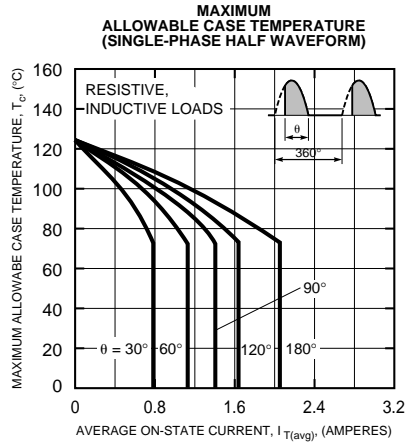
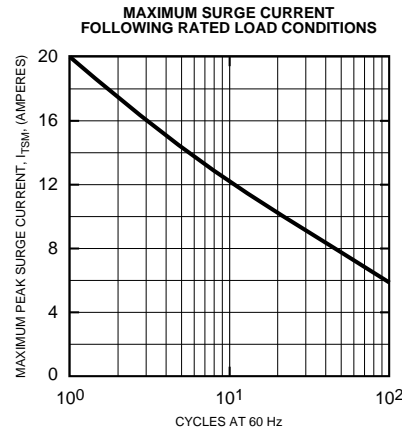
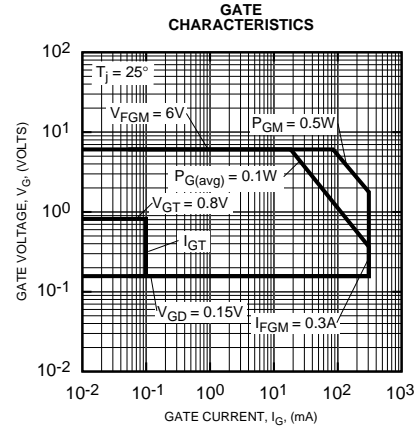
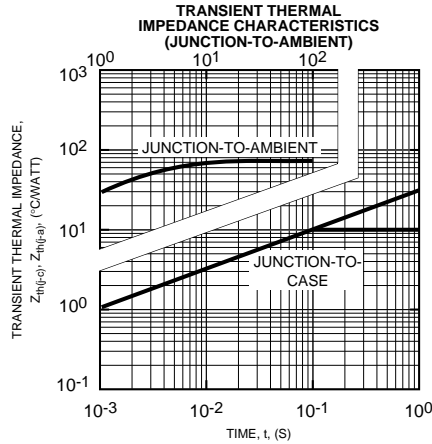
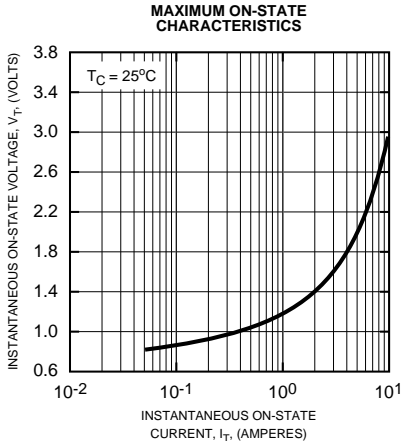
**Lead-mount, Phase Control SCR**

2 Amperes/400-600 Volts

**Electrical and Thermal Characteristics,  $T_j = 25^\circ\text{C}$  unless otherwise specified**

Characteristics	Symbol	Test Conditions	Min.	Typ.	Max.	Units
Voltage – Blocking State						
Peak Forward Leakage	$I_{\text{DRM}}$	$T_j = 125^\circ\text{C}, V_D = V_{\text{DRM}}$	–	–	0.1	mA
Peak Reverse Leakage	$I_{\text{RRM}}$	$T_j = 125^\circ\text{C}, V_R = V_{\text{RRM}}$	–	–	0.1	mA
Current – Conducting State						
Peak On-state Voltage	$V_{\text{TM}}$	$T_c = 25^\circ\text{C}, I_{\text{TM}} = 4\text{A}$	–	–	1.8	Volts
Thermal Resistance, Junction-to-case						
	$R_{\text{th(j-c)}}$	–	–	–	10	$^\circ\text{C/W}$
Gate – Parameters						
Gate Current to Trigger	$I_{\text{GT}}$	$V_D = 6\text{V}, R_L = 60\Omega, T_j = 25^\circ\text{C}$	1	–	100	$\mu\text{A}$
Gate Voltage to Trigger	$V_{\text{GT}}$	$V_D = 6\text{V}, R_L = 60\Omega, T_j = 25^\circ\text{C}$	–	–	0.8	Volts
Non-triggering Gate Voltage	$V_{\text{GD}}$	$V_D = 1/2V_{\text{DRM}}, R_{\text{GK}} = 1\text{k}\Omega, T_j = 125^\circ\text{C}$	0.2	–	–	Volts

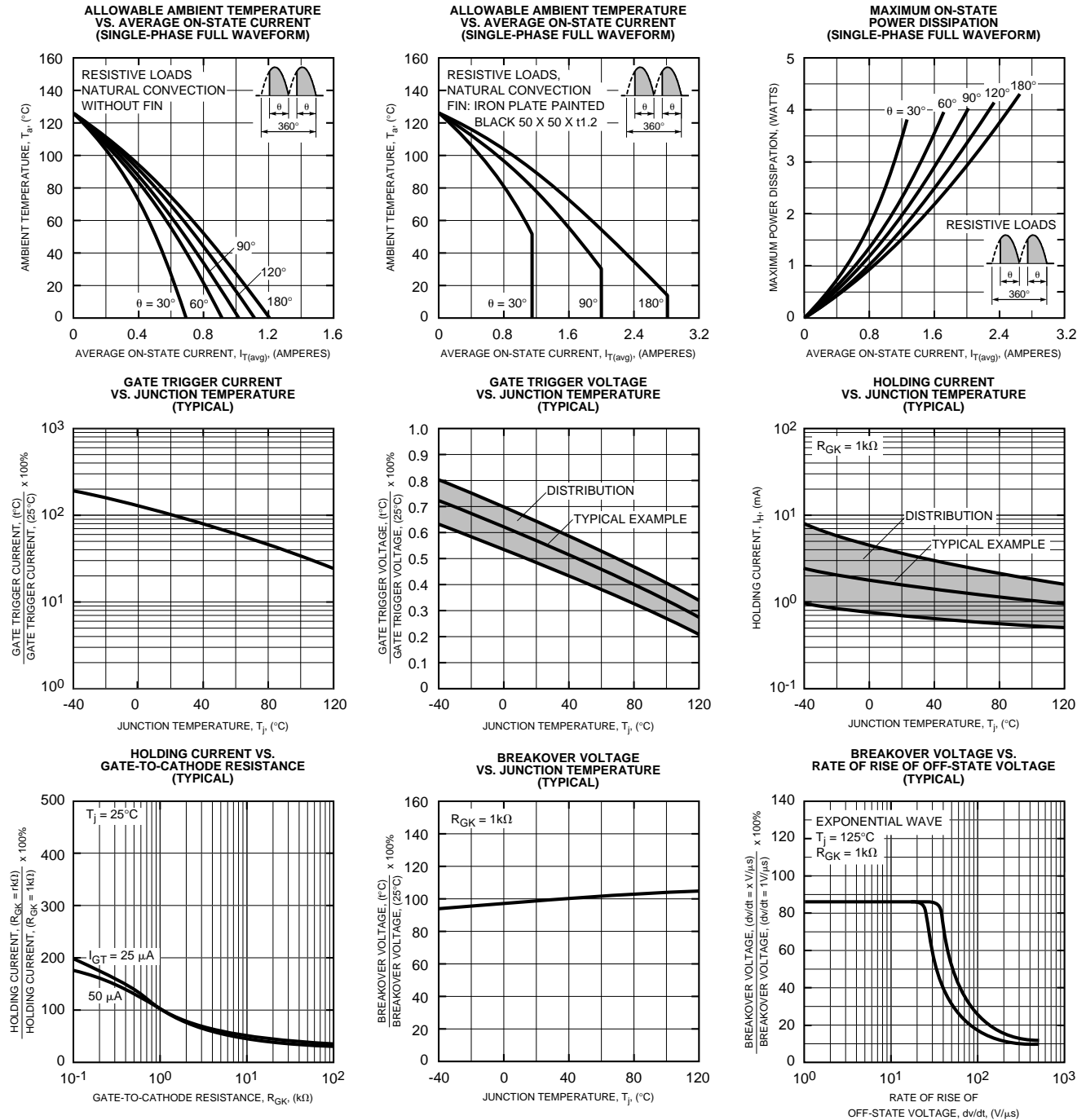
**CR2AM**  
**Lead-mount, Phase Control SCR**  
 2 Amperes/400-600 Volts



## CR2AM

### Lead-mount, Phase Control SCR

2 Amperes/400-600 Volts



## CR2AM

### Lead-mount, Phase Control SCR

2 Amperes/400-600 Volts

