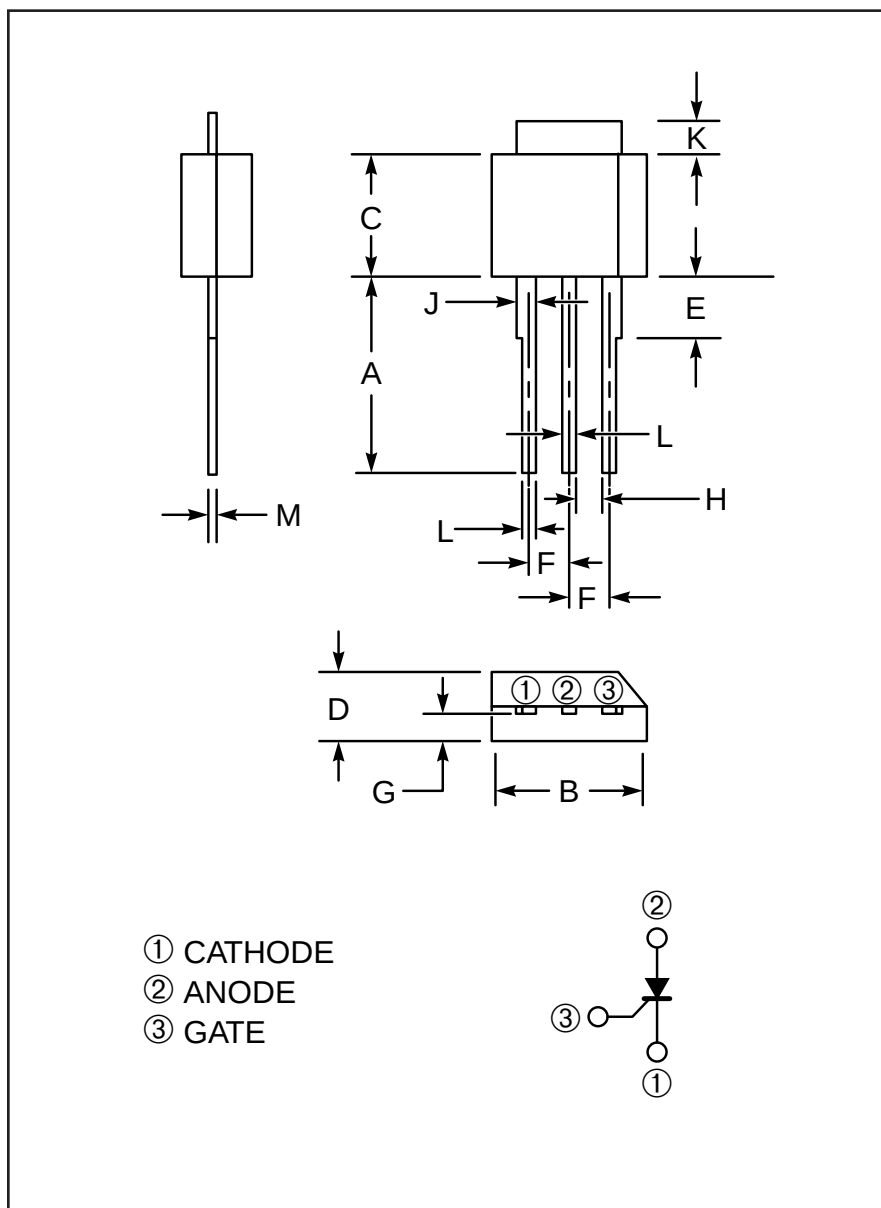


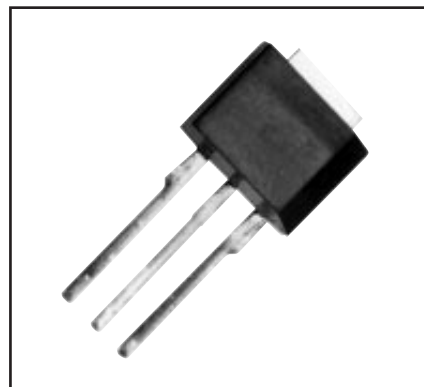
Inverter Grade SCR for Strobe Flasher Applications 0.4 Amperes/400 Volts



Outline Drawing

Dimensions	Inches	Millimeters
A	0.47 Min.	12 Min.
B	0.39 Max.	10 Max.
C	0.31 Max.	8 Max.
D	0.18 Max.	4.5 Max.
E	0.16 Max.	4.0 Max.
F	0.10	2.5

Dimensions	Inches	Millimeters
G	0.061	1.55
H	0.06 Min.	1.5 Min.
J	0.05	1.2
K	0.04 ± 0.02	1.0 ± 0.5
L	0.03	0.8
M	0.02	0.5



Description:

Powerex Inverter Grade Silicon Controlled Rectifier (SCR) CR3AMZ is designed for pulse applications. These are lead-mounted employing glass passivation.

Features:

- ☐ Glass Passivated
- ☐ Short Turn-off Time

Applications:

- ☐ Strobe Flasher

Ordering Information:

Example: Select the complete seven digit part number you desire from the table - i.e. CR3AMZ-8 is a 400 Volt, Inverter Grade SCR for use in pulse applications.

Type	V _{DRM} /V _{RRM} Volts	Code
CR3AMZ	400	-8

CR3AMZ
Inverter Grade SCR
for Strobe Flasher Applications
0.4 Amperes/400 Volts

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

Ratings	Symbol	CR3AMZ-8	Units
Repetitive Peak Off-state Voltage	V_{DRM}	400	Volts
Repetitive Peak Reverse Voltage	V_{RRM}	400	Volts
Non-repetitive Peak Off-state Voltage	V_{DSM}	480	Volts
Non-repetitive Peak Reverse Voltage	V_{RSM}	480	Volts
Average On-state Current, Single Phase Half Sinewave	$I_{\text{T(avg)}}$	0.4	Amperes
Peak On-state Current	I_{TRM}	200	Amperes
Peak Gate Power Dissipation	P_{GM}	0.5	Watts
Average Gate Power Dissipation	$P_{\text{G(avg)}}$	0.1	Watts
Peak Forward Gate Current	I_{FGM}	0.5	Amperes
Peak Forward Gate Voltage	V_{FGM}	6	Volts
Storage Temperature	$T_{\text{(stg)}}$	-40 to 125	$^\circ\text{C}$
Operating Junction Temperature	T_{j}	-40 to 125	$^\circ\text{C}$
Weight (Typical)	—	1.1	Grams

Electrical and Thermal Characteristics

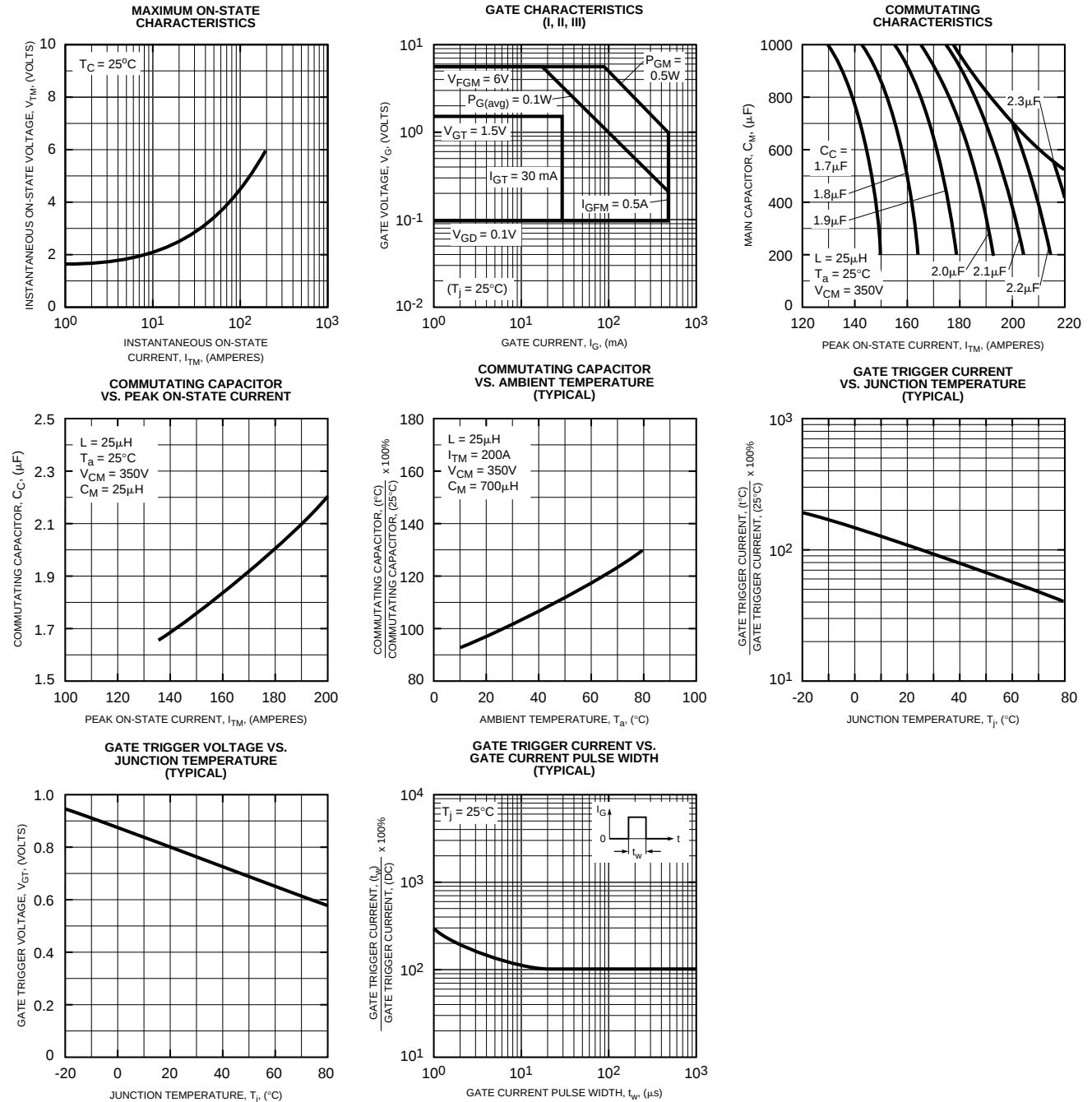
Characteristics	Symbol	Test Conditions	Min.	Typ.	Max.	Units
Current – Conducting State Peak On-state Voltage Drop	V_{TM}	$T_a = 25^\circ\text{C}$, $I_{\text{TM}} = 3\text{A Peak}$	—	—	2.0	Volts
Voltage – Blocking State Forward Leakage, Peak	I_{DRM}	$T_j = 25^\circ\text{C}$, $V_{\text{DRM}} = \text{Rated}$	—	—	0.1	mA
Reverse Leakage, Peak	I_{RRM}	$T_j = 25^\circ\text{C}$, $V_{\text{RRM}} = \text{Rated}$	—	—	0.1	mA
Gate – Parameters Gate Current to Trigger	I_{GT}	$V_{\text{D}} = 6\text{V}$, $R_{\text{L}} = 6\Omega$, $T_j = 25^\circ\text{C}$	—	—	30	mA
Gate Voltage to Trigger	V_{GT}	$V_{\text{D}} = 6\text{V}$, $R_{\text{L}} = 6\Omega$, $T_j = 25^\circ\text{C}$	—	—	1.5	Volts
Non-triggering Gate Voltage	V_{GD}	$V_{\text{D}} = Y_Z V_{\text{DRM}}$, $R_{\text{L}} = 6\Omega$, $T_j = 125^\circ\text{C}$	0.1	—	—	Volts
Commutating Capacitor	C_{C}	$C_{\text{M}} = 700\mu\text{F}$, $V_{\text{CM}} = 350\text{V}$, $I_{\text{TM}} = 200\text{A}$, $L = 25\mu\text{H}$, $T_a = 25^\circ\text{C}$	—	—	2.2	μF

CR3AMZ

Inverter Grade SCR

for Strobe Flasher Applications

0.4 Amperes/400 Volts



CR3AMZ
Inverter Grade SCR
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TEST CIRCUIT FOR COMMUTATING CAPACITOR

