



Applied Pulsed Power, Inc.™

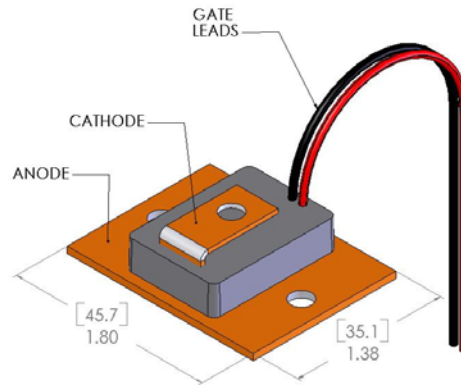
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Model S38 Thyristor Module

Features:

- 4700V Peak Off-State Voltage
- 14kA Peak Non-Repetitive Current
- 30kA/ μ S Maximum di/dt
- 100nS turn-on delay time
- Low Inductance



Operational Ratings (T_j=80°C, unless otherwise specified)

Peak Repetitive Off-State Voltage	4700	Volts
DC Off-State Voltage	4000	Volts
Peak Non-Repetitive Current	14000	Amps
Peak Repetitive Current (10 μ sec pulse, 60pps)	10000	Amps
Peak di/dt	30	kA/ μ Sec
Maximum RMS On-State Current (T _j =120°C)	100	Amps
Operating Temperature Range	-40 to +120	°C
Peak Rate of Reapplication of Off-State Voltage	1000	V/ μ Sec

Operational Characteristics

Trigger Voltage	15	Volts
Typical Leakage Current (V _{ak} =4700V, T _j =25°C)	1	μ Amp
	(V _{ak} =4700V T _j =80°C)	20 μ Amp
Turn-On Delay	100	nSec
Turn-On Delay Jitter	<2	nSec

APP can supply higher current switches by using parallel thyristors and higher voltage switches, for applications such as spark gap replacement, by connecting multiple modules in series. These switches are compact and simple to trigger, using APP's proprietary single trigger technology. Contact Howard D. Sanders, hds@appliedpulsedpower.com, for more information.