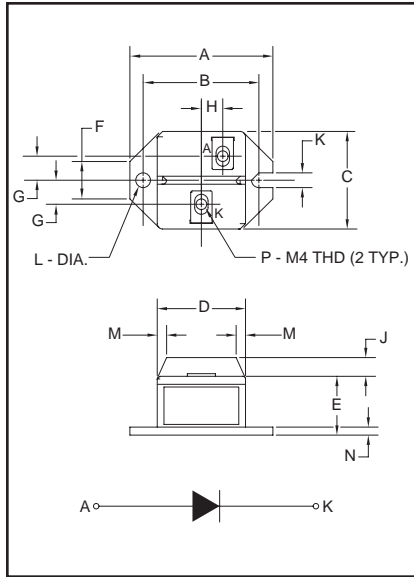


Fast Recovery Single Diode Modules
100 Amperes/600-1200 Volts



Outline Drawing

Dimension	Inches	Millimeters
A	2.087	53
B	1.705±0.008	43.3±0.2
C	1.417	36
D	1.299	33
E	0.866	22
F	0.551	14
G	0.354	9
H	0.315	8
J	0.276	7
K	0.217	5.5
L	0.217 Dia.	Dia. 5.5
M	0.138	3.5
N	0.118	3
P	M4 Metric	M4



CS240610, CS241210
Fast Recovery
Single Diode Modules
100 Amperes/600-1200 Volts

Description:

Powerex Fast Recovery Single Diode Modules are designed for use in applications requiring fast switching. The modules are isolated for easy mounting with other components on common heatsinks. POW-R-BLOK™ has been tested and recognized by Underwriters Laboratories (QQQX2 Power Switching Semiconductors).

Features:

- Isolated Mounting
- Planar Chips
- UL Recognized

Applications:

- Inverters
- Choppers
- Switching Power Supplies
- Free Wheeling

Ordering Information:

Select the complete eight digit module part number you desire from the table below. Example: CS241210 is a 1200 Volt, 100 Ampere Fast Recovery Single Diode Module.

Type	Voltage Volts (x100)	Current Rating Amperes (x10)
CS24	06	10
	12	



Powerex, Inc., 200 Hillis Street, Youngwood, Pennsylvania 15697-1800 (724) 925-7272

CS240610, CS241210
Fast Recovery Single Diode Modules
100 Amperes/600-1200 Volts

Absolute Maximum Ratings

Characteristics	Symbol	CS240610	CS241210	Units
Peak Reverse Blocking Voltage	V_{RRM}	600	1200	Volts
Transient Peak Reverse Blocking Voltage (Non-Repetitive), $t < 5ms$	V_{RSM}	720	1350	Volts
DC Reverse Blocking Voltage	$V_{R(DC)}$	480	960	Volts
DC Current, $T_C = 75^\circ C$	$I_{F(DC)}$	100	100	Amperes
Peak One-Cycle Surge (Non-Repetitive) On-State Current (60Hz)	I_{FSM}	2000	2000	Amperes
Peak One-Cycle Surge (Non-Repetitive) On-State Current (50Hz)	I_{FSM}	1825	1825	Amperes
I^2t (for Fusing), 8.3 milliseconds	I^2t	16700	16700	A ² sec
Storage Temperature	T_{STG}	-40 to 125	-40 to 125	°C
Operating Temperature	T_j	-40 to 150	-40 to 150	°C
Maximum Mounting Torque M5 Mounting Screw	—	17	17	in.-lb.
Maximum Mounting Torque M4 Terminal Screw	—	12	12	in.-lb.
Module Weight (Typical)	—	90	90	Grams
V Isolation	V_{RMS}	2500	2500	Volts



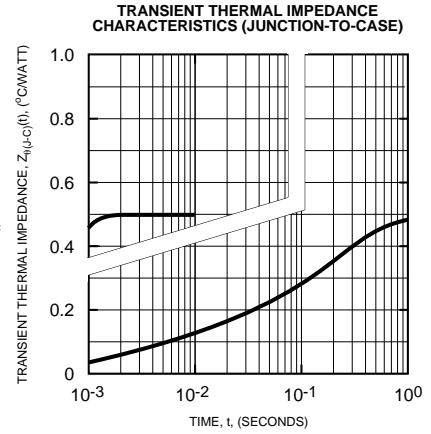
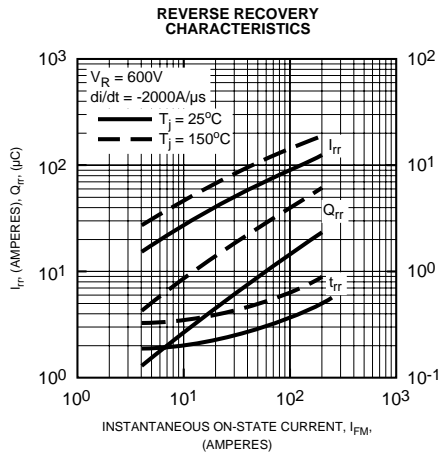
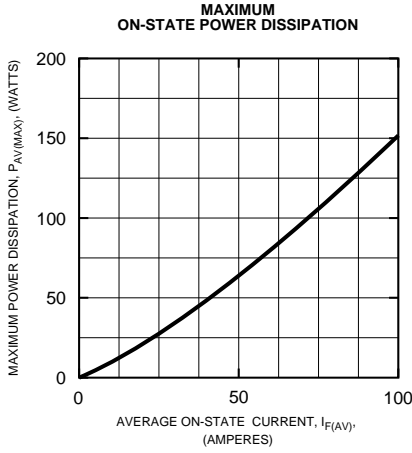
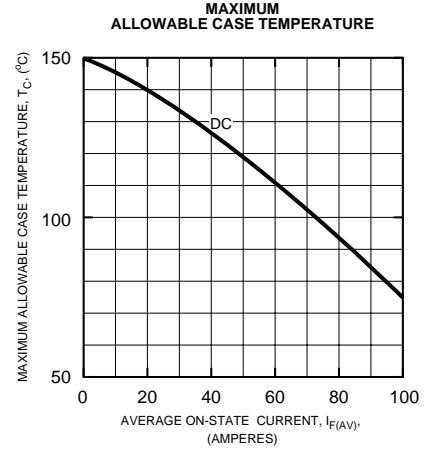
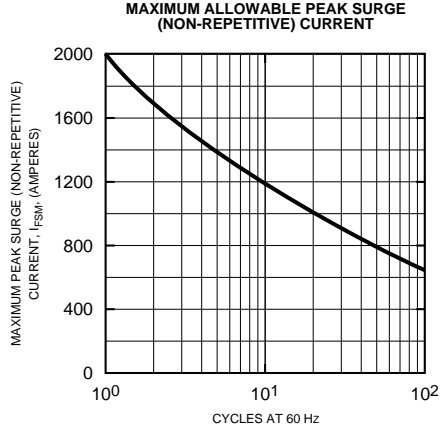
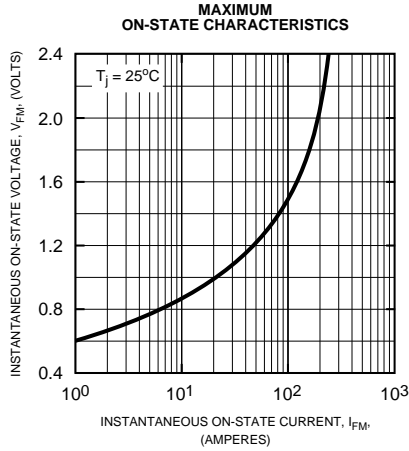
Powerex, Inc., 200 Hillis Street, Youngwood, Pennsylvania 15697-1800 (724) 925-7272

CS240610, CS241210
Fast Recovery Single Diode Modules
100 Amperes/600-1200 Volts

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

Characteristics	Symbol	Test Conditions	CS240610/CS241210	Units
Blocking State Maximums				
Reverse Leakage Current, Peak	I_{RRM}	$T_j = 150^\circ\text{C}$, $V_{RRM} = \text{Rated}$	20	mA
Conducting State Maximums				
Peak On-State Voltage	V_{FM}	$I_{FM} = 100\text{A}$	1.5	Volts
Switching Minimums				
Reverse Recovery Time	t_{rr}	$I_{FM} = 100\text{A}$, $T_j = 150^\circ\text{C}$ $di/dt = -200\text{A}/\mu\text{s}$, $V_R = 1/2 V_{RRM}$	0.8	μs
Reverse Recovery Charge	Q_{rr}	$I_{FM} = 100\text{A}$, $T_j = 150^\circ\text{C}$ $di/dt = -200\text{A}/\mu\text{s}$, $V_R = 1/2 V_{RRM}$	60	μC
Thermal Maximums				
Thermal Resistance, Junction-to-Case	$R_{\theta(J-C)}$	Per Module	0.5	$^\circ\text{C}/\text{Watt}$
Thermal Resistance, Case-to-Sink (Lubricated)	$R_{\theta(C-S)}$	Per Module	0.15	$^\circ\text{C}/\text{Watt}$

CS240610, CS241210
Dual SCR POW-R-BLOK™ Modules
 100 Amperes/600-1200 Volts



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [powerex manufacturer](#):

Other Similar products are found below :

[R7013003XXUA](#) [R9G01212XX](#) [VLA541-01R](#) [QRD0630T30](#) [CM400DY-24NF](#) [CM100TX-24S1](#) [CM600HA-24A](#) [NLD422PB](#)
[PSM03S93E5-A](#) [BP2B-V](#) [ND431625](#) [R5031213LSWS](#) [BG2B](#) [BG2C-5015](#) [ND431825](#) [T9G0121203DH](#) [CD611616C](#) [BG1A-PX](#)
[TCS4402802DH](#) [CD421690C](#) [PM600DVA060](#) [CD411899C](#) [CD631615B](#) [C601PB](#) [R5021213LSWS](#) [BG2A-NFH](#) [C180PB](#) [CD431690B](#)
[NLR425CM](#) [HARDWARE KIT 50](#) [CD410899C](#) [CM400HA-24A](#) [CD411699C](#) [LEAD KIT #NK](#) [HARDWARE KIT 49](#) [VLA500-01](#)
[HARDWARE KIT 87](#) [VLA106-24154](#) [VLA502-01](#) [VLA106-15242](#)