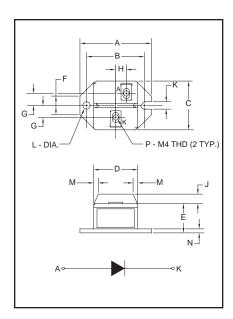


Fast Recovery Single Diode Modules 50 Amperes/600-1200 Volts



Fast Recovery Single Diode Modules 50 Amperes/600-1200 Volts

CS240650, CS241250



Description:Powerex Fast

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:

□ Planar Chips

☐ UL Recognized **Ş**\

Applications:

\Box	Inverters

☐ Choppers

☐ Switching Power Supplies

Free Wheeling

Ordering Information:

Select the complete eight digit module part number you desire from the table below. Example: CS241250 is a 1200 Volt, 50 Ampere Fast Recovery Single Diode Module.

Туре	Voltage Volts (x100)	Current Rating Amperes (50)	
CS24	06 12	50	

Outline Drawing

Dimension	Inches	Millimeters	
А	2.087	53	
В	1.705±0.008	43.3±0.2	
С	1.417	36	
D	1.299	33	
Е	0.866	22	
F	0.551	14	
G	0.354	9	
Н	0.315	8	
J	0.276	7	
K	0.217	5.5	
L	0.217 Dia.	Dia. 5.5	
М	0.138	3.5	
N	0.118	3	
Р	M4 Metric	M4	



CS240650, CS241250 Fast Recovery Single Diode Modules 50 Amperes/600-1200 Volts

Absolute Maximum Ratings

Characteristics	Symbol	CS240650	CS241250	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 = 105°C	I _{F(DC)}	50	50	Amperes
Peak One-Cycle Surge (Non-Repetitive) On-State Current (60Hz)	I _{FSM}	1000	1000	Amperes
Peak One-Cycle Surge (Non-Repetitive) On-State Current (50Hz)	I _{FSM}	910	910	Amperes
I ² t (for Fusing), 8.3 milliseconds	I ² t	4165	4165	A2 _{sec}
Storage Temperature	T _{STG}	-40 to 125	-40 to 125	°C
Operating Temperature	Тј	-40 to 150	-40 to 150	°C
Maximum Mounting Torque M5 Mounting Screw	_	17	17	inlb.
Maximum Mounting Torque M4 Terminal Screw	_	12	12	inlb.
Module Weight (Typical)	_	90	90	Grams
V Isolation	V _{RMS}	2500	2500	Volts



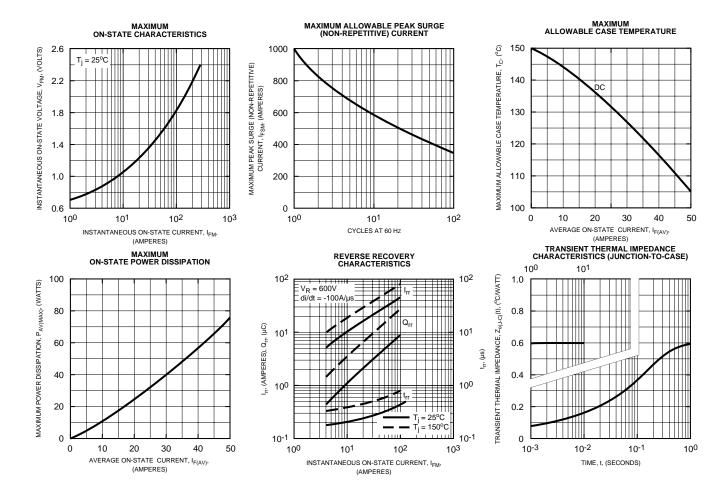
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Electrical and Thermal Characteristics, T_i = 25°C unless otherwise specified

Characteristics	Symbol	Test Conditions	CS240650/CS241250	Units
Blocking State Maximums Reverse Leakage Current, Peak	I _{RRM}	T _j = 150°C, V _{RRM} = Rated	10	mA
Conducting State Maximums Peak On-State Voltage	V_{FM}	I _{FM} = 50A	1.5	Volts
Switching Minimums Reverse Recovery Time	t _{rr}	$I_{FM} = 50A, T_j = 150^{\circ}C$ di/dt =-200A/ μ s, $V_R = 1/2 V_{RRM}$	0.8	μs
Reverse Recovery Charge	Q _{rr}	I_{FM} = 50A, T_j = 150°C di/dt =-200A/ μ s, V_R = 1/2 V_{RRM}	30	μC
Thermal Maximums Thermal Resistance, Junction-to-Case	$R_{\theta(J-C)}$	Per Module	0.6	°C/Watt
Thermal Resistance, Case-to-Sink (Lubricated)	$R_{\theta(C-S)}$	Per Module	0.4	°C/Watt



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Largest Supplier of Electrical and Electronic Components

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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
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