



SOLID STATE DEVICES, INC.

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**SDR2410CTM
SDR2412CTM**

Designer's Data Sheet

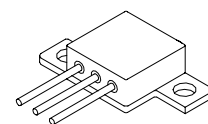
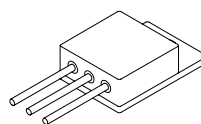
**24AMPS
1200 VOLTS
65 nsec
ULTRAFAST
CENTERTAP RECTIFIER**

FEATURES:

- Ultra Fast Recovery: 65 nsec Maximum
- High Surge Rating
- Low Reverse Leakage Current
- Low Junction Capacitance
- Hermetically Sealed Package
- Ultrasonic Aluminum Wire Bonds
- Ceramic Seal for Improved Hermeticity Available
- Common Anode and Doubler Versions Available
- TX, TXV and Space Level Screening Available

TO-254 (M)

TO-254Z (Z)



Maximum Ratings	SYMBOL	VALUE	UNITS
Peak Repetitive Reverse and DC Blocking Voltage	SDR2410CTM SDR2412CTM	V_{RRM} V_{RWM} V_R	1000 1200 Volts
Average Rectified Forward Current. (Resistive load, 60Hz, Sine Wave, $T_A = 25^\circ\text{C}$) <u>1/</u>	I_o	24	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_C = 55^\circ\text{C}$, $I_O = 12\text{A}$) <u>2/</u>	I_{FSM}	75	Amps
Operating and Storage Temperature	$T_{OP} \& T_{stg}$	-65 TO +200	$^\circ\text{C}$
Maximum Thermal Resistance Junction to Case, <u>1/</u> Junction to Case, <u>2/</u>	$R_{\theta JC}$	1.2 2.4	$^\circ\text{C/W}$

NOTE:

- 1/ Both Legs Tied Together
- 2/ Per Leg.

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: RC0068A

