SOLID STATE DEVICES, INC.
14830 Valley View Blvd * La Mirada, Ca 90638
Phone: (562) 404-7855 * Fax: (562) 404-1773

SDR2410CTM
SDR2412CTM

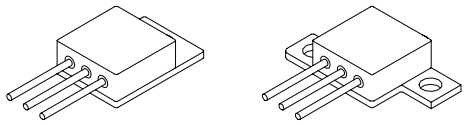
Designer's Data Sheet

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°C) 1/	Io	24	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, T_C = 55°C, I_O = 12A) 2/	I_{FSM}	75	Amps
Operating and Storage Temperature	T_{OP} & Tstg	-65 TO +200	°C
Maximum Thermal Resistance Junction to Case, 1/ Junction to Case, 2/	$R_{\theta JC}$	 1.2 2.4	°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

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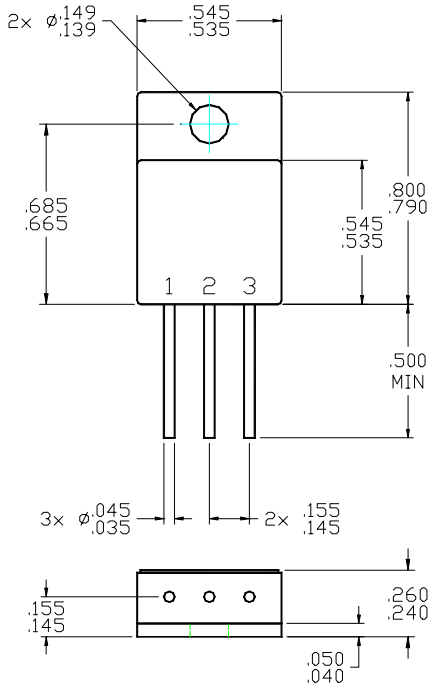
Electrical Characteristics (Per Leg)		SYMBOL	MINIMUM	MAXIMUM	UNITS
Instantaneous Forward Voltage Drop (T_A = 25°C, 300µsec Pulse)	I_F = 12A	V_{F1}	–	1.9	V_{DC}
Instantaneous Forward Voltage Drop (I_F = 12A, 300µsec pulse)	T_A = 100°C T_A = -55°C	V_{F2} V_{F3}	–	1.8 2.2	V_{DC}
Reverse Leakage Current (80% of Rated V_R, 300µs pulse min.)	T_A = 25°C T_C = 100°C	I_{R1} I_{R2}	– –	50 2.5	µA mA
Junction Capacitance (V_R = 10V_{DC}, T_A = 25°C, f = 1MHz)		C_J	–	60	pF
Reverse Recovery Time (I_F = 500mA, I_R = 1.0A, I_{RR} = 250 mA, T_A = 25°C)		t_{RR}	–	65	nsec

CASE OUTLINE: TO-254 (Sufix M)

PIN 1: ANODE 1
PIN 2: CATHODE
PIN 3: ANODE 2



CASE OUTLINE: TO-254Z (Sufix Z)

PIN 1: ANODE 1
PIN 2: CATHODE
PIN 3: ANODE 2