



# SDR646CTM & Z thru SDR647CTM & Z

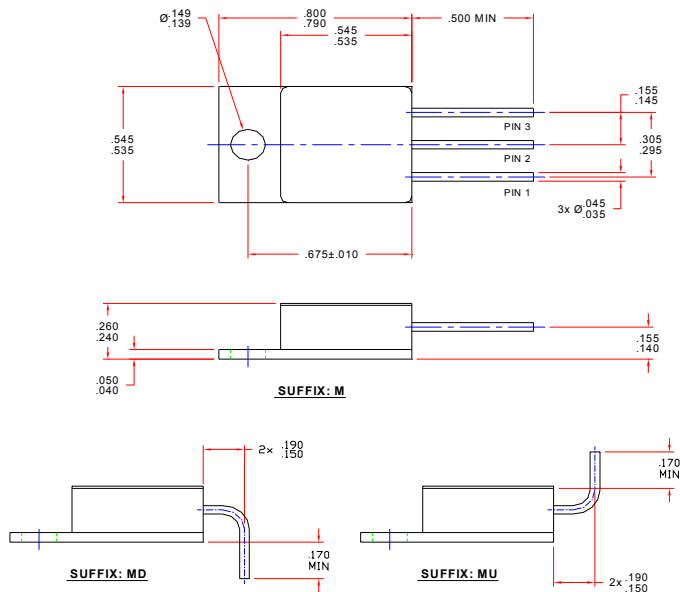


**SOLID STATE DEVICES, INC.**

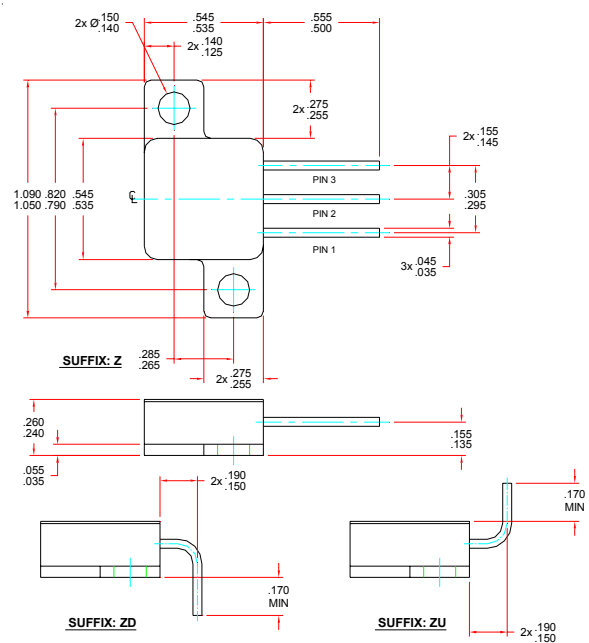
14701 Firestone Blvd \* La Mirada, Ca 90638  
Phone: (562) 404-7855 \* Fax: (562) 404-1773

Electrical Characteristics (Per Leg)	SYMBOL	MINIMUM	MAXIMUM	UNITS
<b>Instantaneous Forward Voltage Drop</b> ( $T_A = 25^\circ\text{C}$ , 300 $\mu\text{sec}$ Pulse)	$I_F = 10\text{A}$ $V_{F1}$	—	<b>1.28</b>	$V_{DC}$
	$I_F = 20\text{A}$ $V_{F2}$	—	<b>1.50</b>	
<b>Instantaneous Forward Voltage Drop</b> ( $I_F = 10\text{A}$ , 300 $\mu\text{sec}$ pulse)	$T_A = 100^\circ\text{C}$ $V_{F3}$	—	<b>1.17</b>	$V_{DC}$
	$T_A = -55^\circ\text{C}$ $V_{F4}$	—	<b>1.35</b>	
<b>Reverse Leakage Current</b> (80% of Rated $V_R$ , 300 $\mu\text{s}$ pulse min.)	$T_A = 25^\circ\text{C}$ $I_{R1}$	—	<b>50</b>	$\mu\text{A}$ <b>mA</b>
	$T_C = 100^\circ\text{C}$ $I_{R2}$	—	<b>5.0</b>	
<b>Junction Capacitance</b> ( $V_R = 10V_{DC}$ , $T_A = 25^\circ\text{C}$ , $f = 1\text{MHz}$ )	$C_J$	—	<b>70</b>	$\text{pF}$
<b>Reverse Recovery Time</b> ( $I_F = 500\text{mA}$ , $I_R = 1.0\text{A}$ , $I_{RR} = 250\text{mA}$ , $T_A = 25^\circ\text{C}$ )	$t_{RR}$	—	<b>60</b>	<b>nsec</b>

## CASE OUTLINE: TO-254 (Suffix M)



## CASE OUTLINE: TO-254Z (Suffix Z)



## PIN ASSIGNMENT

CODE	FUNCTION	PIN 1	PIN 2	PIN 3
CT	Common Cathode	Anode	Cathode	Anode
CA	Common Anode	Cathode	Anode	Cathode