





**Solid State Devices, Inc.**

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**SDR803**

**Thru**

**SDR817**

Electrical Characteristics <sup>4/</sup>		Symbol	Value	Units
<b>Maximum Instantaneous Forward Voltage Drop</b> ( $I_F = 100 \text{ Adc}$ , $T_A = 25^\circ \text{C}$ , 300-500 $\mu\text{s}$ Pulse)	SDR803 – 806	$V_{F1}$	1.00	$V_{DC}$
	SDR807 – 810		1.50	
	SDR811 – 814		1.85	
	SDR815 – 817		1.90	
<b>Maximum Instantaneous Forward Voltage Drop</b> ( $I_F = 100 \text{ Adc}$ , $T_A = -55^\circ \text{C}$ , 300-500 $\mu\text{s}$ Pulse)	SDR803 – 806	$V_{F2}$	1.10	$V_{DC}$
	SDR807 – 810		1.60	
	SDR811 – 814		1.95	
	SDR815 – 817		2.00	
<b>Maximum Reverse Leakage Current</b> (Rated $V_R$ , 300 $\mu\text{s}$ minimum pulse)	$T_A = 25^\circ \text{C}$	$I_{R1}$	100	$\mu\text{A}$
	$T_A = 100^\circ \text{C}$	$I_{R2}$	10	<b>mA</b>
<b>Maximum Reverse Recovery Time</b> ( $I_F = 500 \text{ mA}$ , $I_R = 1 \text{ Amp}$ , $I_{RR} = 250 \text{ mA}$ )	$T_A = 25^\circ \text{C}$	$t_{RR}$	60	<b>nsec</b>
<b>Maximum Junction Capacitance</b> ( $V_R = 10V_{DC}$ , $T_A = 25^\circ \text{C}$ , $f = 1\text{MHz}$ )		$C_J$	700	<b>pF</b>

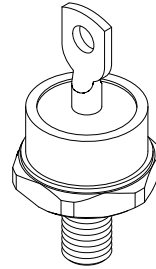
Notes:

1/ For ordering information, Price, Operating Curves, and Availability- Contact Factory.

2/ Screened to MIL-PRF-19500.

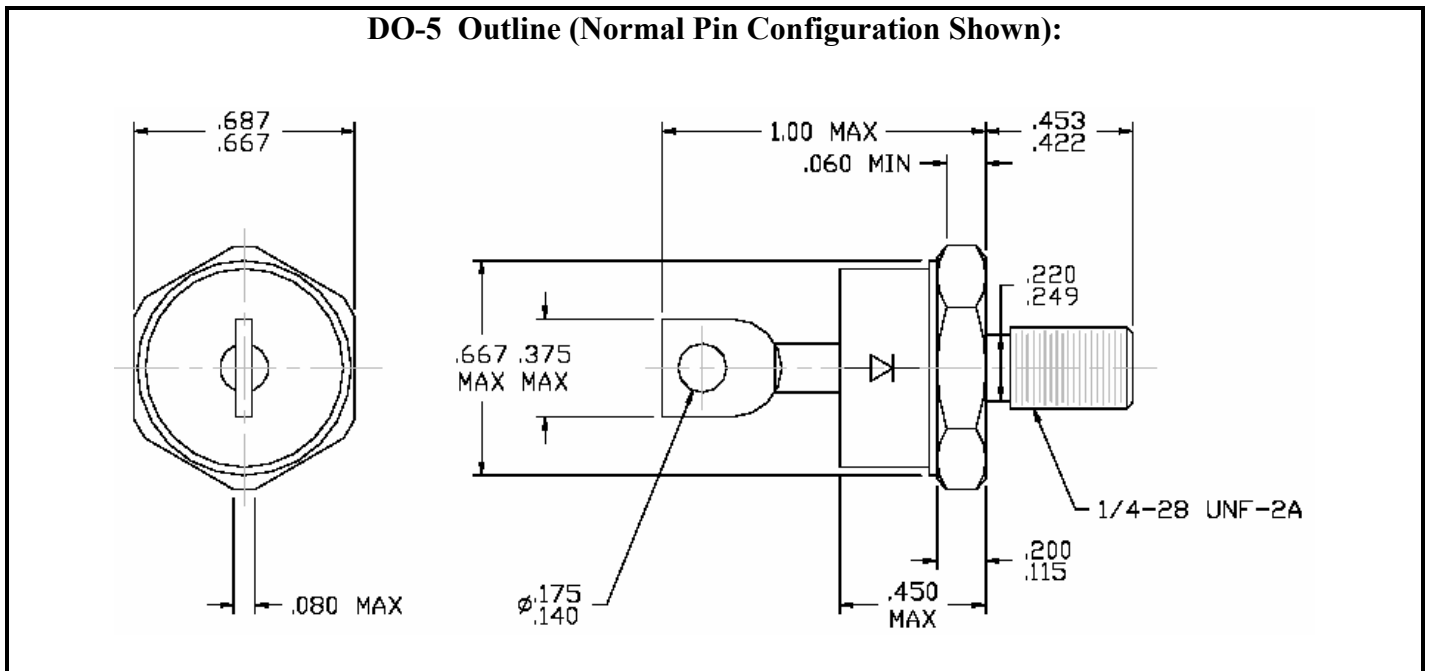
3/ Recovery Conditions:  $I_F = 500 \text{ mA}$ ,  $I_R = 1 \text{ Amp}$ ,  $I_{RR} = 250 \text{ mA}$ .

4/ Unless Otherwise Specified, All Maximum Ratings/Electrical Characteristics @25°C.



Code	Configuration	Terminal	Stud
—	Normal	Anode	Cathode
<b>R</b>	Reverse	Cathode	Anode

**DO-5 Outline (Normal Pin Configuration Shown):**



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

**DATA SHEET #: RU0059G**

**DOC**