

**Solid State Devices, Inc.**

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SSR60100D5 Series**Designer's Data Sheet****Part Number/Ordering Information ^{1/}**

SSR60__D5

Screening ^{2/}

__ = Not Screened
TX = TX Level
TXV = TXV Level
S = S Level

Pin Configuration

(See Table 1)

__ = Normal (Cathode to Stud)
R = Reverse (Anode to Stud)

Family/Voltage

60 = 60V
80 = 80V
100 = 100V

SCHOTTKY RECTIFIERS**60 AMPS****60, 80 and 100 VOLTS****Features:**

- Low Reverse Leakage Current
- Single Chip Construction
- High Surge Capability
- Hermetically Sealed Package
- TX, TXV, and S-Level Screening Available ^{2/}
- 175°C Maximum Operating Temperature
- Replacement for the 60HQ series

Maximum Ratings ^{3/}

	Symbol	Value	Units
Peak Repetitive Reverse Voltage	V_{RRM}	60	Volts
Peak Repetitive Working Voltage	V_{RWM}	80	
DC Blocking Voltage	V_R	100	
Average Rectified Forward Current (Resistive Load, 60 Hz Sine Wave, $T_A = 25^\circ\text{C}$)	I_o	60	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, $T_A = 25^\circ\text{C}$, 1 pulse)	I_{FSM}	1000	Amps
Operating & Storage Temperature	T_{OP} T_{STG}	-55 to +175 -65 to +175	°C
Maximum Total Thermal Resistance Junction to Case	$R_{\theta JC}$	1.0	°C/W

Notes:

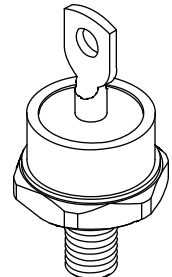
1/ For Ordering Information, Price, Operating Curves, and Availability- Contact Factory.

2/ Screening Based on MIL-PRF-19500. Specifics Available on Request.

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

Table 1- PIN ASSIGNMENT

Code	Configuration	Terminal	Stud
__	Normal	Anode	Cathode
R	Reverse	Cathode	Anode

DO-5:

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

DATA SHEET #: SH0048A**DOC**



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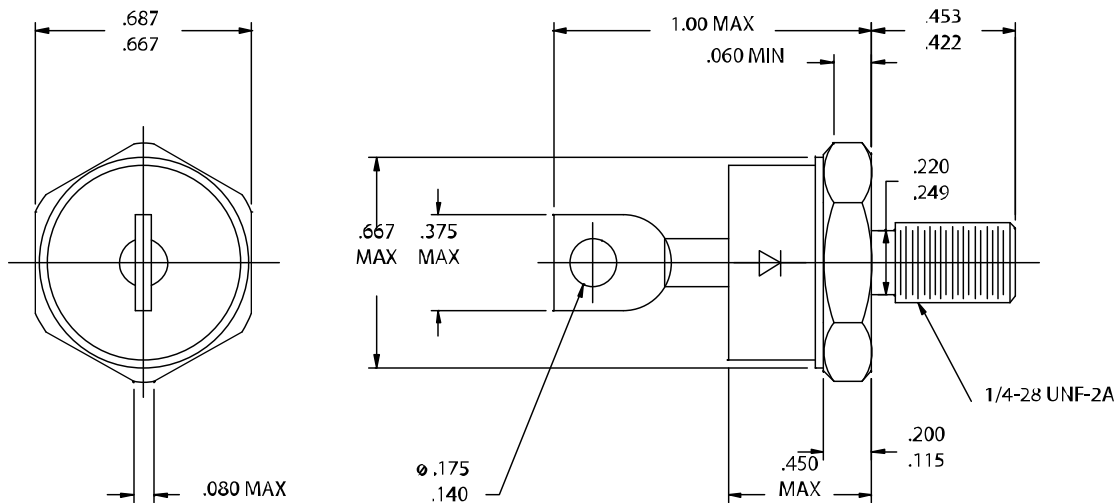
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SSR60100D5 Series

Electrical Characteristics ^{3/}		Symbol	Typ	Max	Units
Maximum Instantaneous Forward Voltage Drop (Pulsed)	$I_F = 10A$	V_{F1}	550	630	mV_{DC}
	$I_F = 10A, T_A = -55^\circ C$	V_{F2}	610	-	
	$I_F = 10A, T_A = 100^\circ C$	V_{F3}	495	-	
	$I_F = 10A, T_A = 125^\circ C$	V_{F4}	460	-	
	$I_F = 30A$	V_{F5}	720	900	
	$I_F = 30A, T_A = -55^\circ C$	V_{F6}	750	950	
	$I_F = 30A, T_A = 100^\circ C$	V_{F7}	615	-	
	$I_F = 30A, T_A = 125^\circ C$	V_{F8}	575	800	
	$I_F = 60A$	V_{F9}	835	1175	
	$I_F = 60A, T_A = -55^\circ C$	V_{F10}	930	-	
	$I_F = 30A, T_A = 100^\circ C$	V_{F11}	700	-	
	$I_F = 30A, T_A = 125^\circ C$	V_{F12}	660	-	
Maximum Reverse Leakage Current (Rated V_R Minimum)	$T_A = 25^\circ C$	I_{R1}	10	500	μA
	$T_A = 100^\circ C$	I_{R2}	3	-	mA
	$T_A = 125^\circ C$	I_{R3}	15	25	mA
Typical Junction Capacitance ($V_R = 10V_{DC}, T_A = 25^\circ C, f = 1MHz$)		C_J		1500	pF

DO-5 Outline (Normal Pin Configuration Shown):



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