



Solid State Devices, Inc.

14701 Firestone Blvd * La Mirada, Ca 90638
 Phone: (562) 404-4474 * Fax: (562) 404-1773
 ssdi@ssdi-power.com * www.ssdi-power.com

SSR60100D5 Series

SCHOTTKY RECTIFIERS 60 AMPS 60, 80 and 100 VOLTS

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 = Normal (Cathode to Stud)
 (See Table 1) R = Reverse (Anode to Stud)

Family/Voltage 60 = 60V
 80 = 80V
 100 = 100V

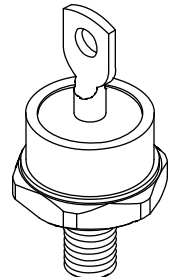
- Features:**
- Low Reverse Leakage Current
 - Single Chip Construction
 - High Surge Capability
 - Hermetically Sealed Package
 - TX, TXV, and S-Level Screening Available ^{2/}
 - 175°C Maximum Operating Temperature
 - Replacement for the 60HQ series

Maximum Ratings ^{3/}		Symbol	Value	Units
Peak Repetitive Reverse Voltage	SSR6060D5	V _{RRM}	60	Volts
Peak Repetitive Working Voltage	SSR6080D5	V _{RWM}	80	
DC Blocking Voltage	SSR60100D5	V _R	100	
Average Rectified Forward Current (Resistive Load, 60 Hz Sine Wave, T _A = 25 °C)		I _o	60	Amps
Peak Surge Current (8.3 ms Pulse, Half Sine Wave, T _A = 25 °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 _{θJC}	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.

DO-5:



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



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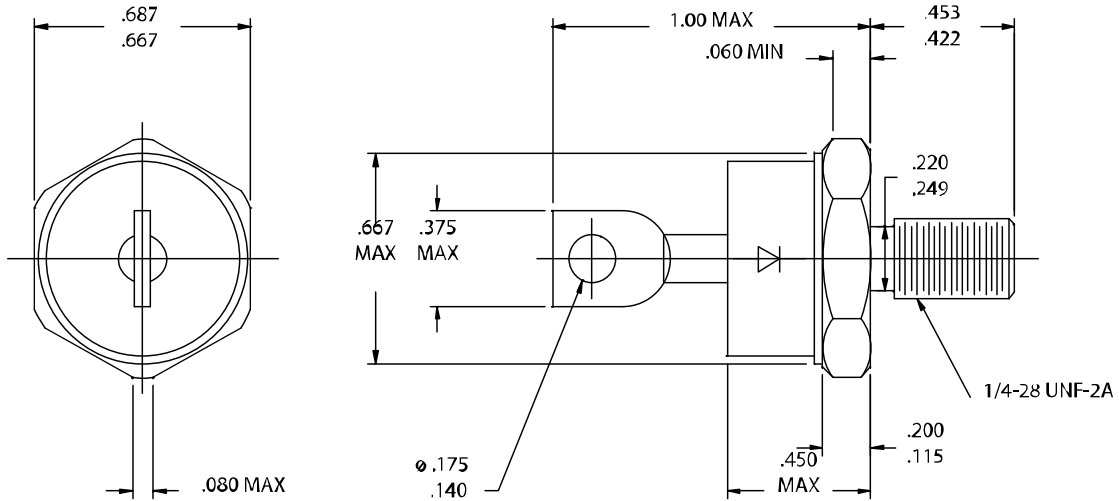
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Electrical Characteristics ^{3/}	Symbol	Typ	Max	Units	
Maximum Instantaneous Forward Voltage Drop (Pulsed)	$I_F = 10A$	V_{F1}	550	630	mV _{DC}
	$I_F = 10A, T_A = -55^\circ C$	V_{F2}	610	-	
	$I_F = 10A, T_A = 100^\circ C$	V_{F3}	495	-	
	$I_F = 10A, T_A = 125^\circ C$	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):



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