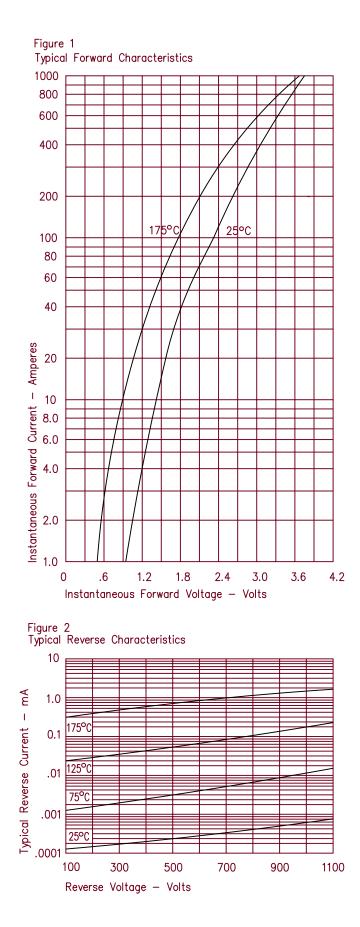
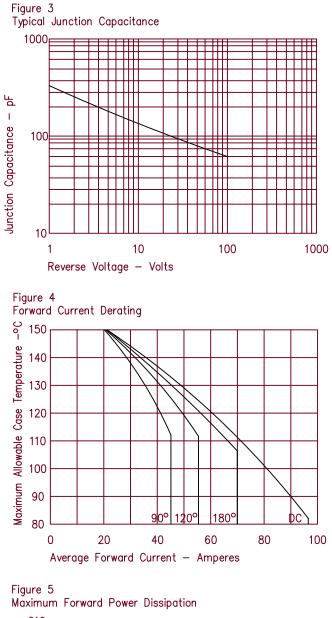
SuperSoft™ Ultrafast Rectifiers SSUR70120

	Dim. Inches Millimeter
	Minimum Maximum Maximum Maximum NotesA1/4-28 UNF 3A1
	B .667 .687 16.94 17.45 C793 20.14
	D 1.00 25.40 E .422 .453 10.72 11.51
Notes:	F .115 .200 2.92 5.08 G450 11.43
P K threads D 2. Standard Polarity: Stud is	H .220 .249 5.59 6.32 2 J .250 .375 6.35 9.52
H G Cathode Reverse Polarity: Stud is	K .140 3.56 M667 16.94 Dia
Anode	N080 2.03 P .140 .175 3.56 4.44 Dia
	D0203AB (D05)
Microsemi Catalog Repetive Peak Transient Peak Number Reverse Voltage Reverse Voltage	Soft Recovery CharacteristicsUltrafast Rectifier
SSUR70120* 1200V 1200V	• 70 Amps current rating
	 M.IPRF-19500 Equivalents Available 175°C Junction Temperature
	• VRRM 1200 Volts
*Add Suffix R For Reverse Polarity	
Electrical Characteristics	
Average forward current F(AV) 70 Amps	^T C = 107°C, Squar <u>e</u> wave, ^R ÐJC = 0.7°C/W
Maximum surge current FSM 500 Amps Max peak forward voltage V FM 2.30 Volts	8.3 ms, half sine, ^T J = 175°C ^I FM = 70A: ^T J = 25°C*
Max peak reverse current IRM 3.0 mA Max peak reverse current IRM 25 uA	VRRM, $TJ = 125^{\circ}C$ VRRM, $TJ = 25^{\circ}C$
Typical junction capacitance ^C J 150 pF Max reverse recovery time ^t RR 120 nsec	VR = 10.0V, TJ = 25°C ^I F = 1A, VR = 30V, di/dt=50A/uS
*Pulse test: Pulse width 300 µsec, Duty cycle 2%	
Thermal and Mechanical Characteristics	
Storage temp range	-65°C to 175°C
Operating junction temp range TJ Max thermal resistance R OJC	-65°C to 175°C 0.7°C/W Junction to case
Typical thermal resistance (greased) R OCS Mounting torque	0.5°C/W Case to sink 25-30 inch pounds 54 curress (15 3 grame) turing
Weight	.54 ounces (15.3 grams) typical
LAWRENCE LAWRENCE 6 Lake Street Lawrence, MA 01841 PH: (978) 620-2600 FAX: (978) 689-0803	
PH: (978) 620-2600 FAX: (978) 689-0803 www.microsemi.com www.microsemi.com	05-04-07 Rev. 2

SSUR70120







05-04-07 Rev. 2

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Microchip: SSUR70120