

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

Designer's Data Sheet

Part Number/Ordering Information ^{1/} SPR2

L Screening 2/ = Not Screened TX = TX Level TXV = TXV S = S Level

Package Type = Axial

SMS = Surface Mount Square Tab

Reverse Recovery

F = Fast Recovery

Device Type (VRWM)

K = 800VM = 1000V

N = 1200V

SPR2KF thru SPR2NF

REVERSE TRANSIENT RATED

2 Amp FAST RECTIFIER 800-1200 Volts 200 nsec

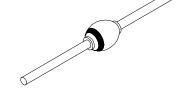
FEATURES:

- Fast Reverse Recovery Time: 200 nsec Max
- PIV to 1200 Volts
- Reverse Transient Rated: 1 Amp (Typ 1200 Wpk)
- Hermetically Sealed
- For High Efficiency Applications
- Available in Axial and Surface Mount Versions
- Metallurgically Bonded
- Solid Silver Leads for High Thermal Conductivity
- TX, TXV, and S-Level Screening Available^{2/}

MAXIMUM RATINGS 3/						
RATING		SYMBOL	VALUE	UNIT		
Peak Repetitive Reverse Voltage DC Blocking Voltage	SPR2K SPR2M SPR2N	$egin{array}{c} oldsymbol{V_{RMM}} \ oldsymbol{V_{R}} \end{array}$	800 1000 1200	Volts		
Average Rectified Forward Current Resistive Load, 60 Hz, Sine Wave, T _C = 25°C)		lo	2	Amps		
Peak Surge Current 8.3ms pulse, half sine wave superimposed on Io, allow junction to reach equilibrium between pulses, T _A = 25°C)		I _{FSM}	75	Amps		
Operating & Storage Temperature		T _{OP} and T _{STG}	-65 to +175	°C		
Maximum Thermal Resistance Junction to Lead Junction to	ls, L=3/8"(Axial) End Tab (SMS)		38 7.0	°C/W		

NOTES: Axial Leaded SMS

- $\underline{\textbf{1}}\textit{I}$ For Ordering Information, Price, and Availability- Contact Factory.
- 2/ Screening Based on MIL-PRF-19500. Screening Flows Available on Request.
- 3/ Unless Otherwise Specified, All Electrical Characteristics @25°C.





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

DATA SHEET #: RC0134A

DOC



SPR2KF thru SPR2NF

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ssui@ssui-power.com www.ssui-power.com				
CHARACTERISTICS		SYMBOL	MAX	UNIT
Instantaneous Forward Voltage Drop (T _A = 25°C, 300 µs Pulse)	$I_F = 0.75A$ $I_F = 2A$	V _F	1.25 1.55	Vdc
Reverse Leakage Current (VR = 800V, 300 µs Pulse Minimum , T _A = 25°C)		I _R	2	μА
Maximum Reverse Leakage Current (VR = 800V, 300 μs Pulse Minimum , T _A = 125°C)		I _R	50	μА
Junction Capacitance $(T_A = 25^{\circ}C, f = 1MHz, V_R = 10V)$		C¹	20	pf
Reverse Recovery Time (I _F = 500mA, I _R = 1A, I _{RR} = 250mA, T _A = 25°C)		t _{rr}	200	nsec
Reverse Energy Test (Half sine wave, tp = 600ns @ 50% of I _P)		I _{PK}	1 (Minimum)	А

