



SHANGHAI SUNRISE ELECTRONICS CO., LTD.

SF1A THRU SF1G

SURFACE MOUNT SUPER
FAST SWITCHING RECTIFIER

TECHNICAL
SPECIFICATION

VOLTAGE: 50 TO 400V CURRENT: 1.0A

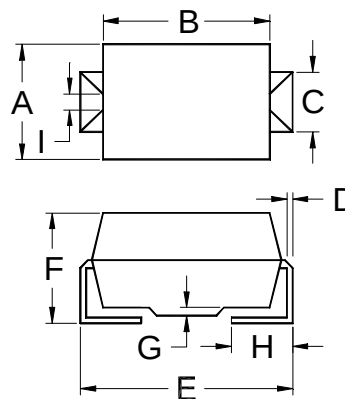
FEATURES

- Ideal for surface mount pick and place application
- Low profile package
- Built-in strain relief
- High surge capability
- Open junction chip, silastic passivated
- Super fast recovery for high efficiency
- High temperature soldering guaranteed:
260°C/10sec/at terminal

MECHANICAL DATA

- Terminal: Plated leads solderable per
MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O
recognized flame retardant epoxy
- Polarity: Color band denotes cathode

DSMA/DO-214AC



	A	B	C	D	
MAX.	.110(2.79)	.177(4.50)	.075(1.90)	.012(0.305)	
MIN.	.100(2.54)	.157(3.99)	.052(1.32)	.006(0.152)	
	E	F	G	H	I
MAX.	.208(5.28)	.090(2.29)	.008(0.203)	.060(1.52)	.035(0.88)
MIN.	.194(4.93)	.078(1.98)	.004(0.102)	.030(0.76)	.027(0.68)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	SF1A	SF1B	SF1C	SF1D	SF1E	SF1G	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	V
Maximum Average Forward Rectified Current (T _L =110°C)	I _{F(AV)}	1.0						A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I _{FSM}	30						A
Maximum Instantaneous Forward Voltage (at rated forward current)	V _F	0.95			1.25			V
Maximum DC Reverse Current T _a =25°C (at rated DC blocking voltage) T _a =100°C	I _R	5.0 200						μA μA
Maximum Reverse Recovery Time (Note 1)	trr	35						nS
Typical Junction Capacitance (Note 2)	C _J	10						pF
Typical Thermal RSFistance (Note 3)	R _{θ(ja)}	40						°C/W
Storage and Operation Junction Temperature	T _{STG} , T _J	-50 to +150						°C

Note:

- 1.Reverse recovery condition $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $t_{rr}=0.25\text{A}$.
- 2.Measured at 1.0 MHz and applied voltage of 4.0V_{dc}
- 3.Thermal resistance from junction to terminal mounted on 5×5mm copper pad area

<http://www.sse-diode.com>

This datasheet has been download from:

www.datasheetcatalog.com

Datasheets for electronics components.