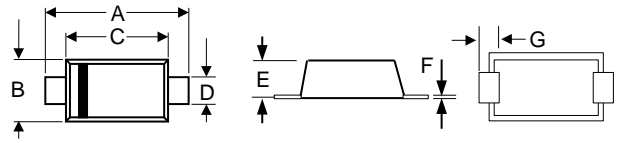


Features

- * For surface mounted application
- * Extremely low thermal resistance
- * Easy pick and place
- * High temp soldering: 260°C for 10 seconds at terminals
- * Fast reverse recovery time



RoHS
COMPLIANT



DIM.	SMAF			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.173	0.193	4.40	4.90
B	0.094	0.106	2.40	2.70
C	0.130	0.146	3.30	3.70
D	0.051	0.063	1.30	1.60
E	0.035	0.043	0.90	1.10
F	0.005	0.008	0.12	0.20
G	0.031	0.047	0.80	1.20

Mechanical Data

- * Case: SMAF Molded plastic
- * Terminals: Solderable per MIL-STD-750, Method 2026
- * Polarity: Indicated by cathode band

Maximum Ratings and Electrical Characteristics (T_A=25°C unless otherwise noted)

Type Number	Symbols	FS1AF	FS1BF	FS1DF	FS1GF	FS1JF	FS1KF	FS1MF	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum D.C Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1							A
Peak Forward Surge Current, 8.3ms single half sine-wave	I _{FSM}	30							A
Maximum Instantaneous Forward Voltage at 1.0A	V _F	1.3							V
Maximum D.C Reverse Current @ T _J =25°C	I _R	5							μA
at Rated D.C Blocking Voltage @ T _J =125°C		100							
Maximum Reverse Recovery Time (Note1)	T _{rr}	150			250	500		nS	
Typical Junction Capacitance (Note2)	C _J	15							pF
Typical Thermal Resistance (Note3)	R _{θJA}	80							°C/W
Operating Junction Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Note 1: Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{RR}=0.25A

Note 2: Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Note 3: P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Ratings and Characteristic Curves

Fig.1 Forward Current Derating Curve

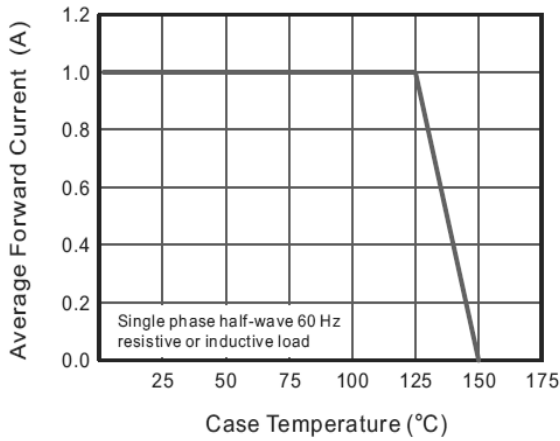


Fig.2 Typical Reverse Characteristics

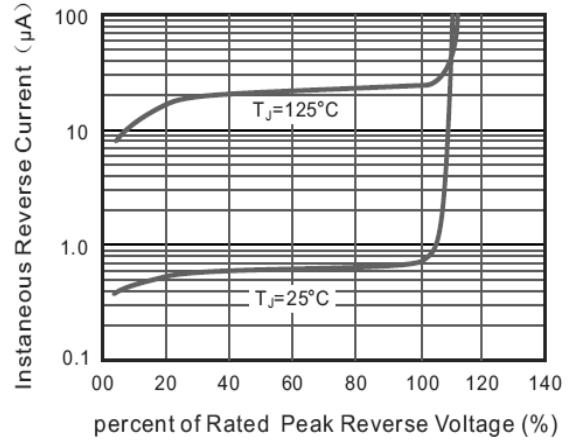


Fig.3 Typical Instantaneous Forward Characteristics

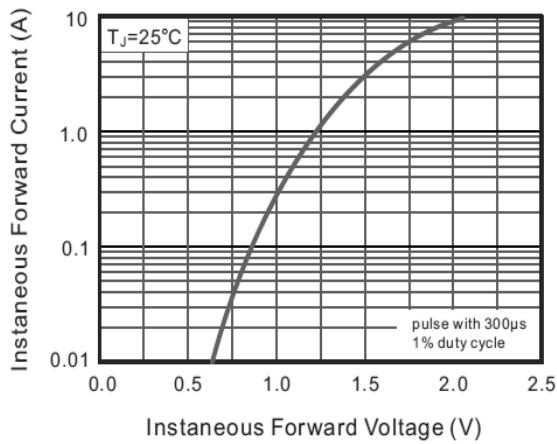


Fig.4 Typical Junction Capacitance

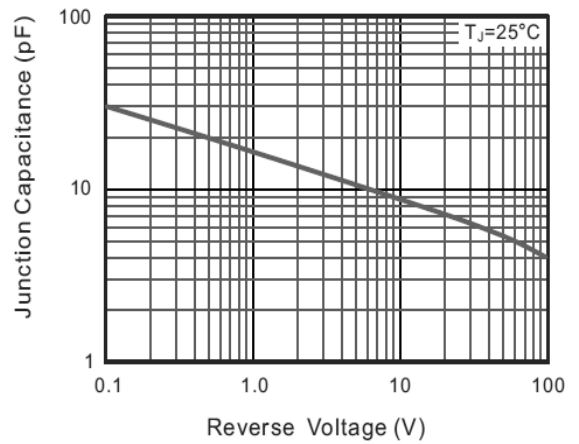
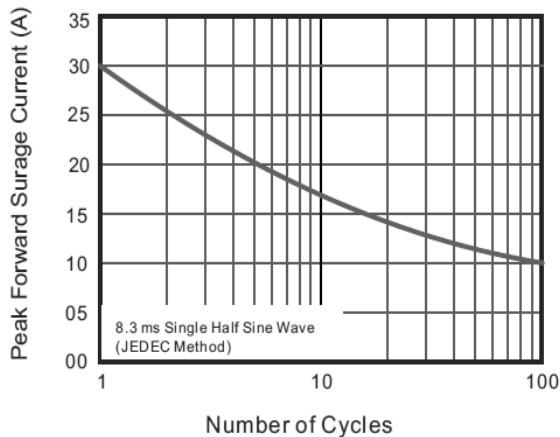


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current





FS1AF THRU FS1MF

Surface Mount Glass Passivated Fast Recovery Rectifiers

Ordering Information

Part No.	Package	Packing Code	Packing
FS1AF THRU FS1MF	SMAF	R30	3000pcs/Reel

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