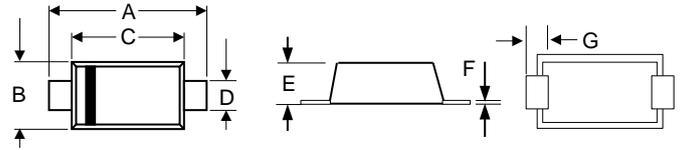


Features

- * For surface mounted application
- * Low Profile Package
- * Glass Passivated Chip Junction
- * High Temp Soldering: 260°C for 10seconds at Terminals
- * Easy to pick and place
- * High efficiency



RoHS
COMPLIANT



SMAF				
DIM.	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	US1AF	US1BF	US1DF	US1GF	US1JF	US1KF	US1MF	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	1.0		1.3		1.7			V	
Maximum D.C Reverse Current @ T _J =25°C at Rated D.C Blocking Voltage @ T _J =125°C	I_R	5 100							μA	
Maximum Reverse Recovery Time (Note1)	T _{rr}	50				75				nS
Typical thermal resistance (Note2)	R _{θJA}	80							°C/W	
Operating and Storage Temperature Range	T _J / 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: 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

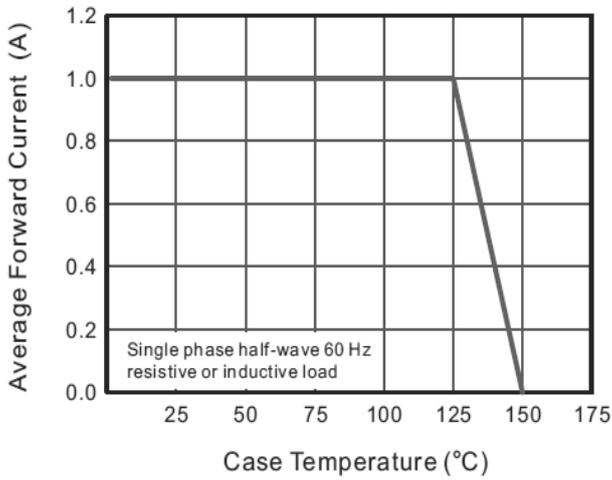


Fig.2 Typical Reverse Characteristics

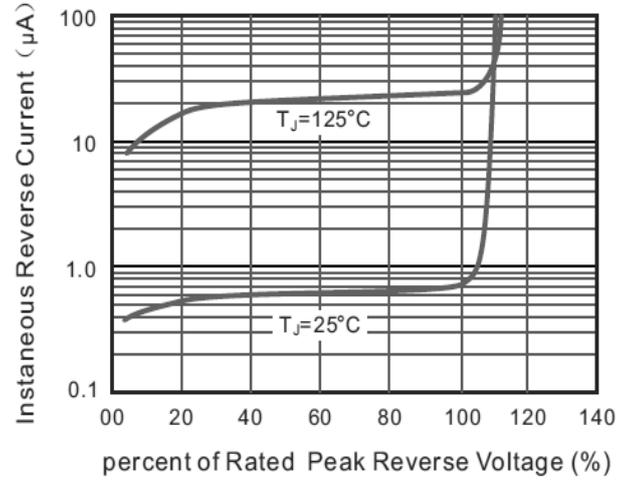


Fig.3 Typical Forward Characteristics

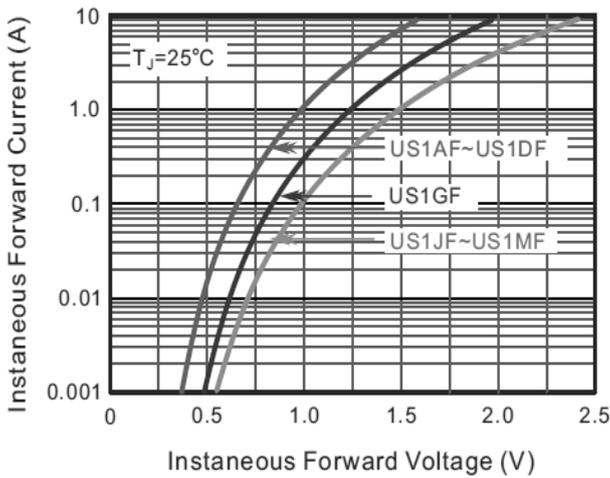
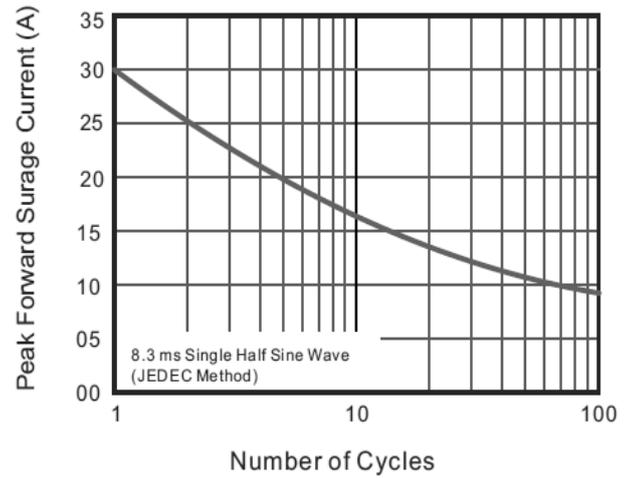


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current





US1AF THRU US1MF

1.0 Amp. Surface Mount Glass Passivated High Efficient Rectifiers

Ordering Information

Part No.	Package	Packing Code	Packing
US1AF THRU US1MF	SMAF	R30	3000pcs/Reel

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