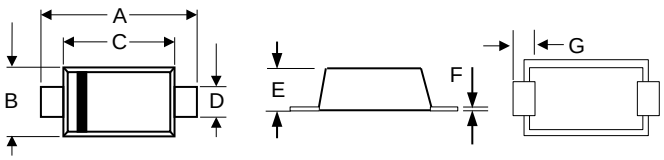
S3AAF THRU S3MAF

Surface Mount General Purpose Silicon Rectifiers

Features

* For surface mounted applications
* Low profile package
* Glass Passivated Chip Junction
* Easy to pick and place
* High Temp Soldering: 260℃ for 10seconds at Terminals



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 (TA=25℃ unless otherwise noted)

Type Number	Symbols	S3AAF	S3BAF	S3DAF	S3GAF	S3JAF	S3KAF	S3MAF	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	$I_{F(AV)}$	3							A
Peak Forward Surge Current, 8.3ms single half sine-wave	I_{FSM}	100							A
Maximum Instantaneous Forward Voltage at 3.0A	V_F	1.1							V
Maximum D.C Reverse Current @ T_J=25℃	I_R	5							μA
at Rated D.C Blocking Voltage @ T_J=125℃		100							
Typical Junction Capacitance (Note1)	C_J	32							pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$ $R_{\theta JC}$	50 16							℃/W
Operating Junction Temperature Range	T_J	-55 to +150							℃
Storage Temperature Range	T_{STG}	-55 to +150							℃

Note 1:Measured at 1 MHz and applied reverse voltage of 4 V D.C
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

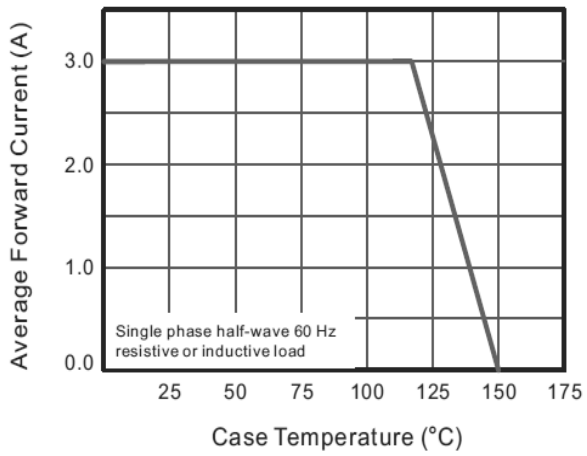


Fig.2 Typical Instaneous Reverse Characteristics

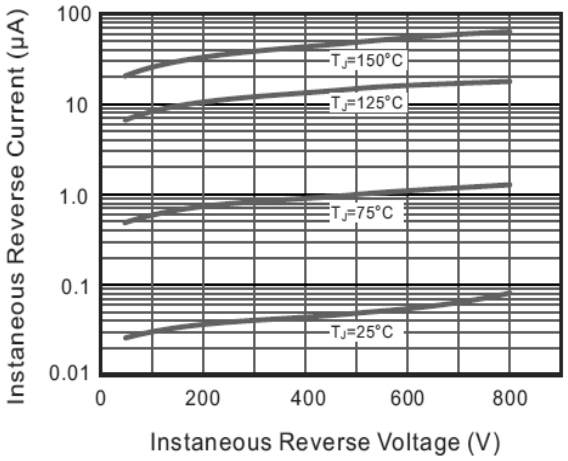


Fig.3 Typical Forward Characteristic

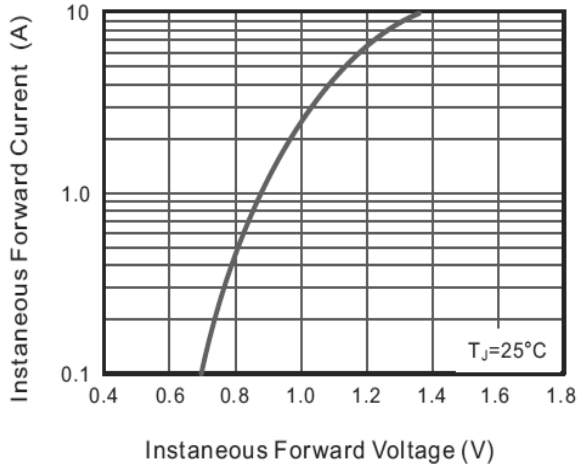


Fig.4 Typical Junction Capacitance

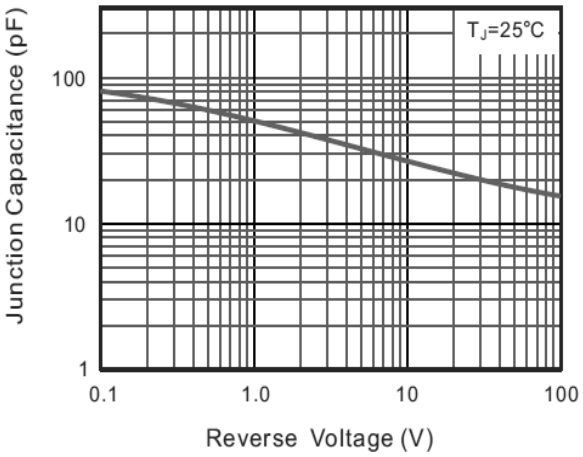
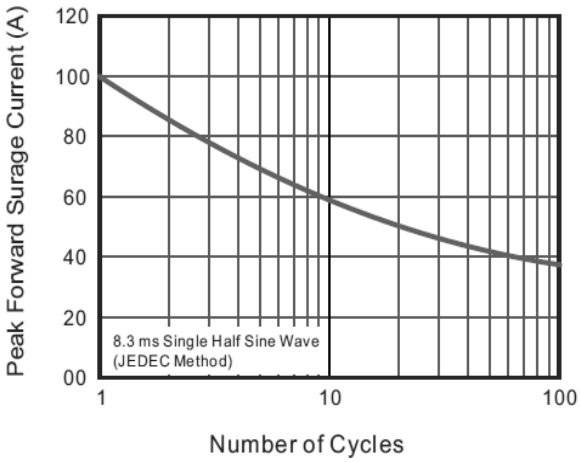


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



Ordering Information

Part No.	Package	Packing Code	Packing
S3AAF THRU S3MAF	SMAF	R30	3000pcs/Reel

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