RS2AF THRU RS2MF

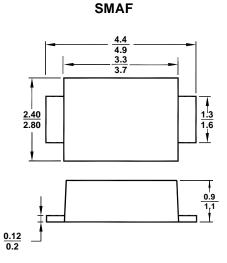
Surface Mount Fast Recovery Rectifier Reverse Voltage - 50 to 1000 V Forward Current - 2 A

Features

- Glass Passivated Chip Juntion
- For surface mounted applications
- Low profile package
- Fast reverse recovery time

Mechanical Data

- Case: SMAF
- Terminals: Solderable per MIL-STD-750, Method 2026



All Dimensions in mm

Absolute Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

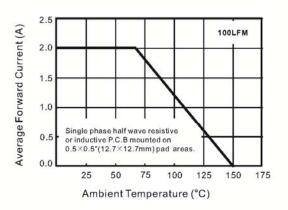
				.,	-			
Symbols	RS2AF	RS2BF	RS2DF	RS2GF	RS2JF	RS2KF	RS2MF	Units
Marking	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	-
V _{RRM}	50	100	200	400	600	800	1000	V
V _{RMS}	35	70	140	280	420	560	700	V
V _{DC}	50	100	200	400	600	800	1000	V
I _{F(AV)}	2							А
I _{FSM}	50						А	
VF	1.3						V	
I _R	5 100							μA
t _{rr}	150			250	50	00	ns	
Cj	40						pF	
$R_{ extsf{ heta}JA}$	75							°C/W
T _j , T _{stg}	- 55 to + 150							°C
	Marking V _{RRM} V _{RMS} V _{DC} I _{F(AV)} I _{FSM} V _F I _R t _{rr} C _j R _{θJA}	Marking RS2A V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _{F(AV)} 50 I _{FSM} 50 V _R 50 I _{FAV} 50 I _{FAV} 50 I _{FAV} 50 I _{FSM} 50 V _F 1 I _R 50 C _j 1 R _{6JA} 50	Marking RS2A RS2B V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 V _{DC} 50 100 I _{F(AV)}	Marking RS2A RS2B RS2D V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 I _{F(AV)} 50 100 200 I _{F(AV)} - - - I _{FSM} - - - V _F - - - I _R - - - C _j C _j - - R _{θJA} - - -	$\begin{tabular}{ c c c c c } \hline N & \ Marking RS2A RS2B RS2D RS2G \\ \hline Marking S50 100 200 400 \\ \hline V_{RMS} 35 70 140 280 \\ \hline V_{DC} 50 100 200 400 \\ \hline V_{DC} 50 100 200 400 \\ \hline I_{F(AV)} & $$20$ $$2$	$\begin{tabular}{ c c c c c } \hline Marking RS2A RS2B RS2D RS2G RS2J \\ \hline W_{RRM} & 50 & 100 & 200 & 400 & 600 \\ \hline W_{RMS} & 35 & 70 & 140 & 280 & 420 \\ \hline W_{DC} & 50 & 100 & 200 & 400 & 600 \\ \hline U_{F(AV)} & & & & & & & & \\ \hline I_{F(AV)} & & & & & & & & & & \\ \hline I_{FSM} & & & & & & & & & & & & \\ \hline V_{F} & & & & & & & & & & & & & \\ \hline V_{F} & & & & & & & & & & & & & & \\ \hline V_{F} & & & & & & & & & & & & & & \\ \hline V_{F} & & & & & & & & & & & & & & & \\ \hline V_{F} & & & & & & & & & & & & & & & \\ \hline I_{rr} & & & & & & & & & & & & & & & & & \\ \hline C_{j} & & & & & & & & & & & & & & & & & \\ \hline C_{j} & & & & & & & & & & & & & & & & & & \\ \hline R_{6JA} & & & & & & & & & & & & & & & & & & &$	Marking RS2A RS2B RS2D RS2G RS2J RS2K V_{RRM} 50 100 200 400 600 800 V_{RMS} 35 70 140 280 420 560 V_{DC} 50 100 200 400 600 800 V_{DC} 50 100 200 400 600 800 V_{DC} 50 100 200 400 600 800 $I_{F(AV)}$ 50 100 200 400 600 800 V_F 50 50	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

 $^{1)}$ P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.



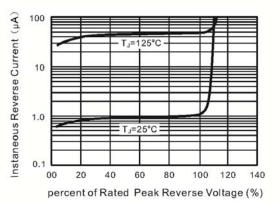


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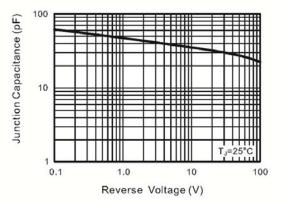


Forward Current Derating Curve





Typical Junction Capacitance



Characteristics

1.0

Instaneous Forward Voltage (V)

pulse with 300µs

2.0

2.5

1% duty cycle

1.5

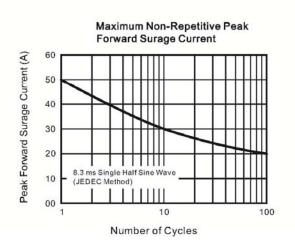
Instaneous Forward Current (A)

0.01

0.0

0.5

Typical Instaneous Forward







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