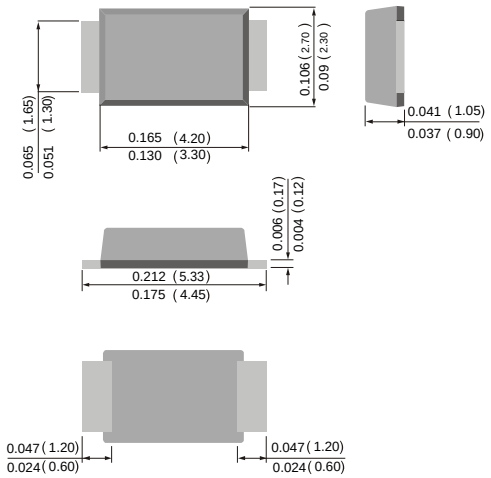
RS2DF - RS2MF

FAST RECOVERY RECTIFIER

VOLTAGE 200 to 1000 Volts **CURRENT** 2 Ampere

SMAF Unit: inch (mm)

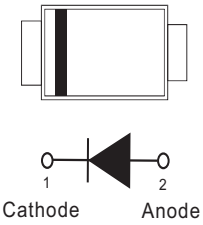


FEATURES

- For surface mounted applications
- Easy pick and place
- Fast Recovery times for high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated junction
- Ultra Thin Profile Package for Space Constrained Utilization
- Package suitable for Automated Handling
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std

MECHANICAL DATA

- Case: SMAF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Approx. Weight: 0.0011 ounce, 0.0328 grams
- Polarity: Color band denotes cathode end



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	RS2DF	RS2GF	RS2JF	RS2KF	RS2MF	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	2					A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50					A
Maximum Forward Voltage at 2A	V_F	1.3					V
Maximum DC Reverse Current T_J=25°C	I_R	5					μA
Typical Junction Capacitance (V_R=4V f=1MHz)	C_J	24					pF
Typical Thermal Resistance (Note 1) (Note 2)	$R_{\theta JL}$ $R_{\theta JA}$	22 150					°C / W
Maximum Reverse Recovery Time	T_{rr}	150		250		500	nS
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to +150					°C

NOTES : 1. Mounted on an FR4 PCB, single-sided copper, with 100cm^2 copper pad area.
2. Mounted on an FR4 PCB, single-sided copper, mini pad.

RS2DF - RS2MF

RATING AND CHARACTERISTIC CURVES

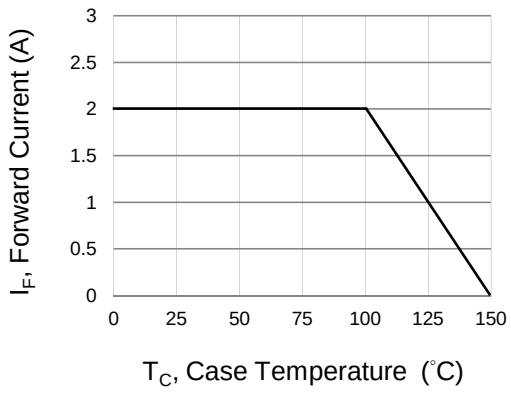


Fig.1 Forward Current Derating Curve

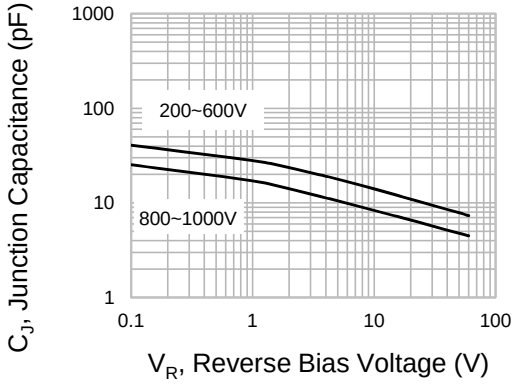


Fig.2 Typical Junction Capacitance

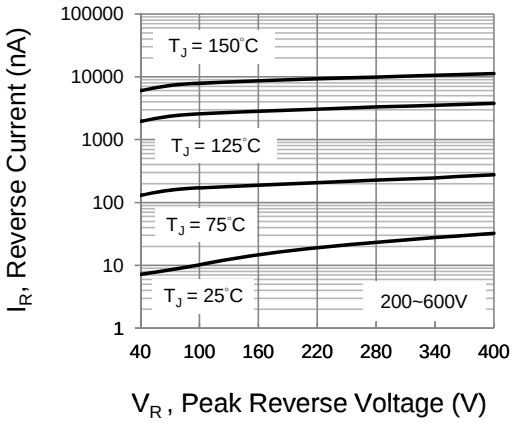


Fig.3 Typical Reverse Characteristics

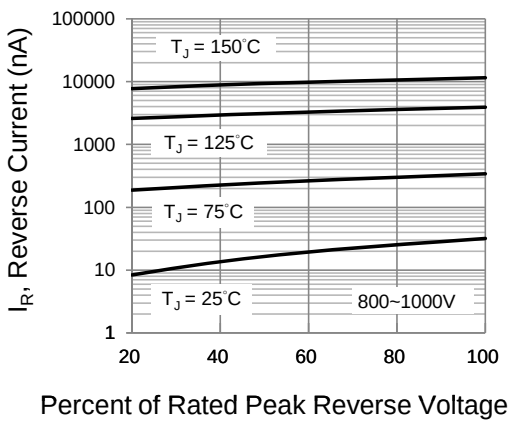


Fig.4 Typical Reverse Characteristics

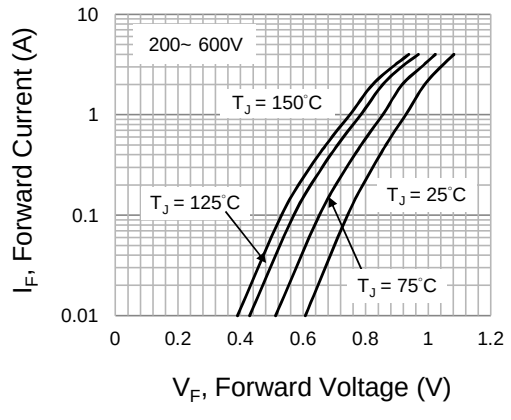


Fig.5 Typical Forward Characteristics

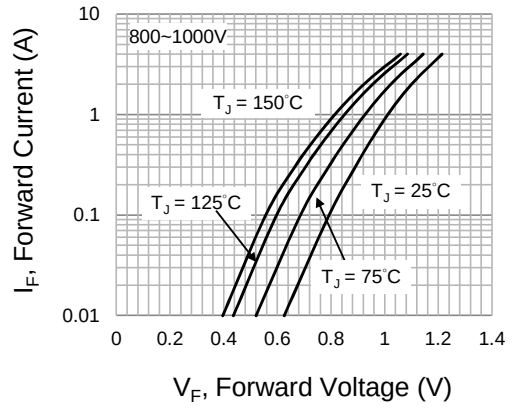


Fig.6 Typical Forward Characteristics