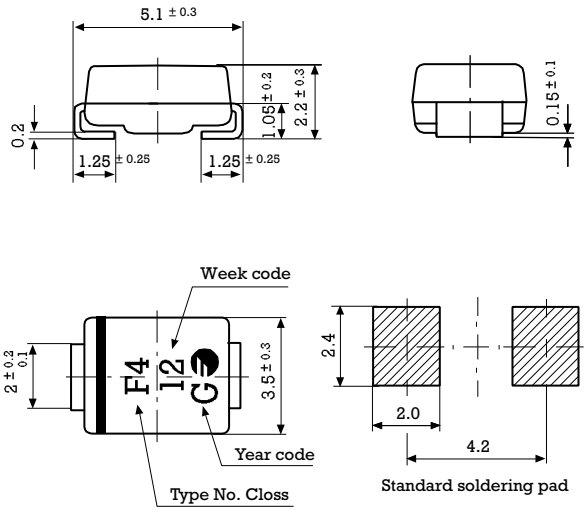
1.5 Amp. Surface Mounted Glass Passivated Rectifier

Dimensions in mm.

CASE:
SMB/DO-214AA



Voltage
50 to 1000 V

Current
1.5 A

HYPERECTIFIER®

- **Glass passivated junction**
- High current capability
- The plastic material carries U/L 94 V-0
- Low profile package
- Easy pick and place
- High temperature soldering 260 °C 10 sec

MECHANICAL DATA

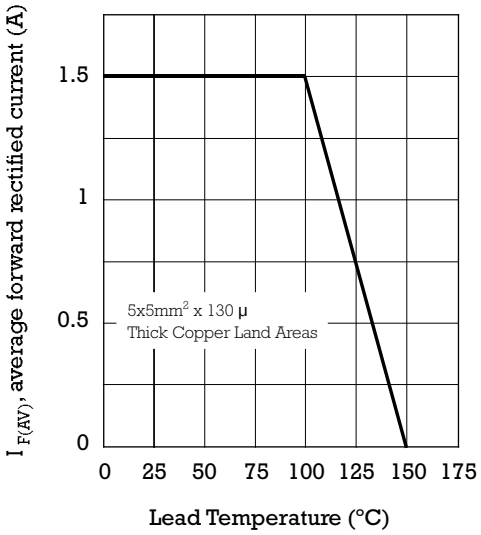
Terminals: Solder plated, solderable per IEC 68-2-20.
Standard Packaging: 8 mm. tape (EIA-RS-481).
Weight: 0.093 g.

Maximum Ratings and Electrical Characteristics at 25 °C

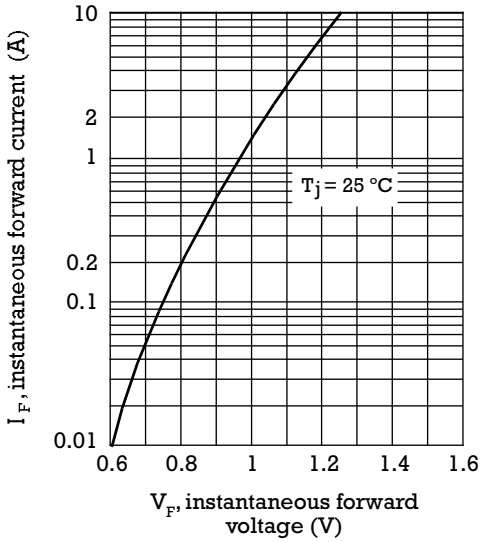
		FS2A	FS2B	FS2D	FS2G	FS2J	FS2K	FS2M
Marking code		S1	S2	S3	S4	S5	S6	S7
V_{RRM}	Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000
V_{RMS}	Maximum RMS Voltage	35	70	140	280	420	560	700
V_{DC}	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000
$I_{F(AV)}$	Forward current at T_L = 100 °C	1.5 A						
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	50 A						
V_F	Maximum Instantaneous Forward Voltage at 1.5A	1.1 V						
I_R	Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 125 °C	1 µA 125 µA						
t_{rr}	Typical Reverse Recovery Time (0.5/1/0.25A)	4 µs						
C_j	Typical Junction Capacitance (1MHz; -4V)	30 pF						
$R_{th\ (j-l)}$ $R_{th\ (j-a)}$	Typical Thermal Resistance (5x5 mm² x 130 µ Copper Area)	20 °C/W 60 °C/W						
T_j - T_{stg}	Operating Junction and Storage Temperature Range	-55 to + 150 °C						

Rating And Characteristic Curves

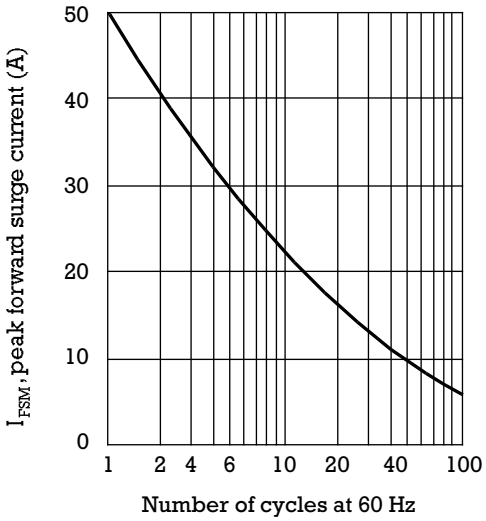
FORWARD CURRENT DERATING CURVE



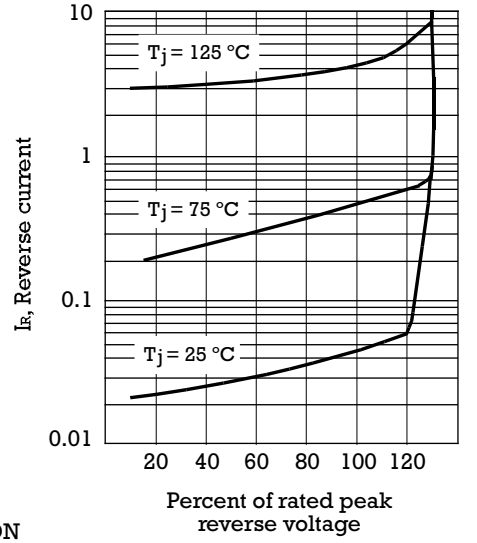
TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION CAPACITANCE