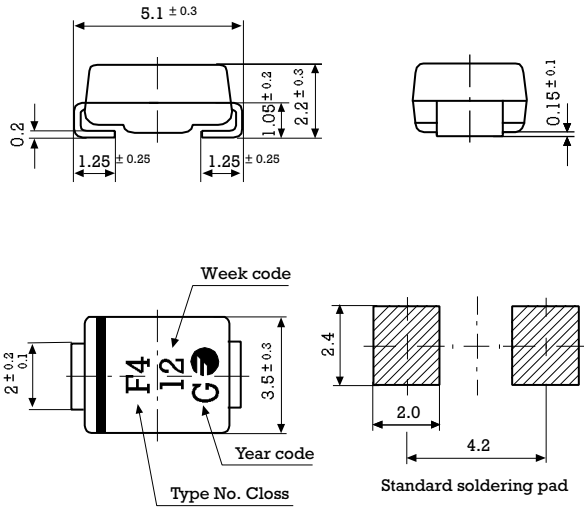
2 Amp. Surface Mounted Glass Passivated Ultrafast Recovery Rectifier

Dimensions in mm.

CASE:
SMB/DO-214AA



Voltage
50 to 600 V

Current
2.0 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

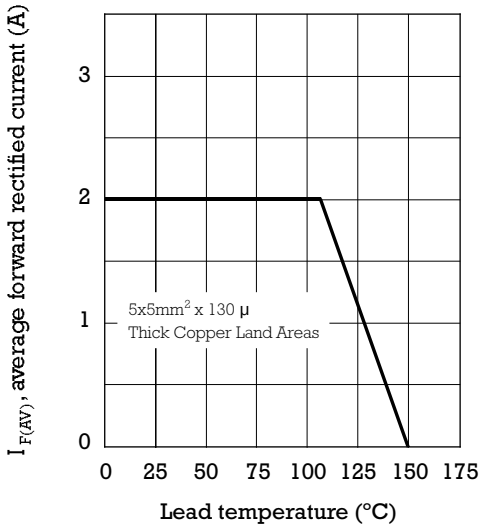
Terminals: Solder plated, solderable per IEC 68-2-20.
Standard Packaging: 8 mm. tape (EIA-RS-481).
Weight: 0.093 g.

Maximum Ratings and Electrical Characteristics at 25 °C

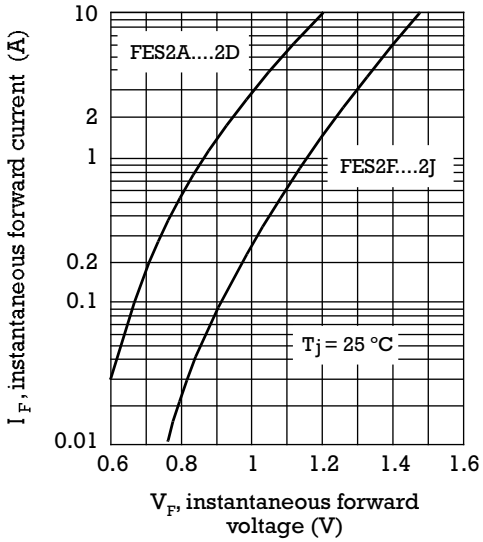
		FES2A	FES2B	FES2D	FES2F	FES2G	FES2J
Marking Code		V1	V2	V3	V4	V5	V6
V_{RRM}	Maximum Recurrent Peak Reverse Voltage	50	100	200	300	400	600
V_{RMS}	Maximum RMS Voltage	35	70	140	210	280	420
V_{DC}	Maximum DC Blocking Voltage	50	100	200	300	400	600
$I_{F(AV)}$	Forward current at T_L = 110 °C	2.0 A					
I_{FSM}	8.3 ms. peak forward surge current (Jedec Method)	50 A					
V_F	Maximum Instantaneous Forward Voltage at 2.0A	0.95 V			1.25 V		
I_R	Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 100 °C	10 µA 350 µA					
T_{rr}	Maximum Reverse Recovery Time (0.5/1/0.25A)	50 ns					
C_j	Typical Junction Capacitance (1MHz; -4V)	35 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

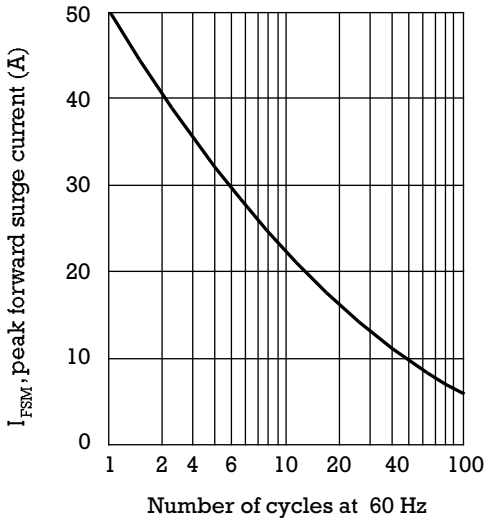
FORWARD CURRENT DERATING CURVE



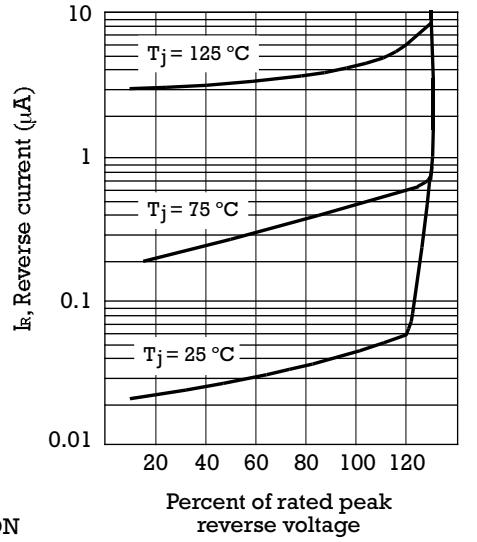
TYPICAL FORWARD CHARACTERISTIC



MAXIMUM NON REPETITIVE PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTIC



TYPICAL JUNCTION CAPACITANCE