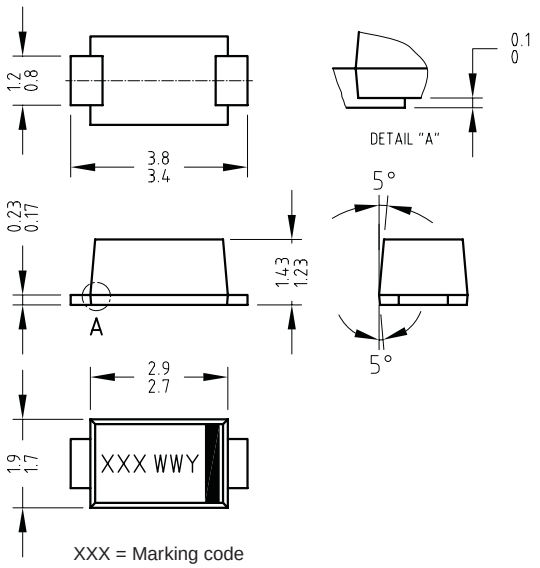
0.8 Amp. Surface Mounted Glass Passivated Fast Recovery Rectifier

Dimensions in mm.

CASE:
M1F (DO219AA)



XXX = Marking code
WW = Week code
Y = Year code

Voltage	**Current**
400 to 1000 V	0.8 A

HYPERECTIFIER®

- For surface mounted application
- Glass Passivated junction chip
- Built-in strain relief, ideal for automated placement
- Plastic material used carries Underwriters Laboratory Classification 94V-0
- Fast switching for high efficiency
- High temperature soldering: 260 °C / 10 seconds at terminals

MECHANICAL DATA

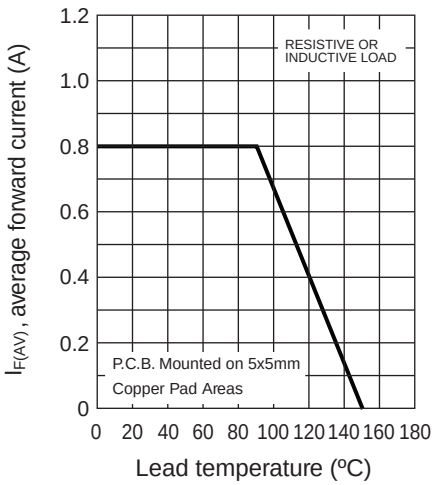
- Cases: Molded plastic
- Terminals: Solder plated
- Polarity: Indicated by cathode band
- Packaging: 8 mm /12 mm tape per EIA STD RS-481
- Weight: 15 mg

Maximun Ratings and Electrical Characteristics at 25 °C

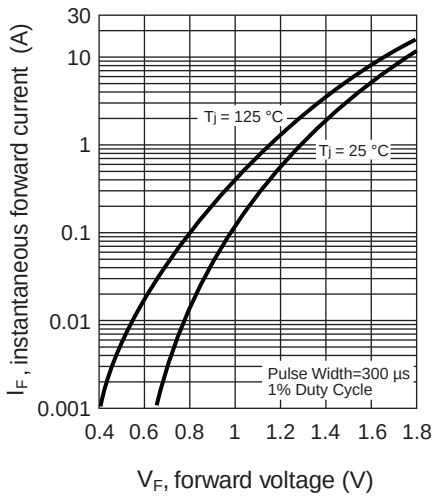
		FRS1GL	FRS1JL	FRS1ML
Marking Code		RGL	RJL	RML
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	400	600	1000
V_{RMS}	Maximum RMS Voltage (V)	280	420	700
V_{DC}	Maximum DC Blocking Voltage (V)	400	600	1000
$I_{(AV)}$	Maximum average Forward Rectified Current See Fig. 1 at T_L = 90 °C	0.8 A		
I_{FSM}	Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (Jedec Method)	30 A		
V_F	Maximum Instantaneous Forward Voltage at 1.0A	1.3 V		
I_R	Maximum DC Reverse Current @ Ta = 25 °C at Rated DC Blocking Voltage @ Ta = 125 °C	5 µA 50 µA		
T_{rr}	Maximum Reverse Recovery Time (0.5/1/0.25A)	150 nS	250 nS	500 nS
C_j	Typical Junction Capacitance (1MHz; -4V)	10 pF		
$R_{th\ (j-a)}$ $R_{th\ (j-l)}$	Typical Thermal Resistance (5x5 mm^2 x 130 µ Copper Area)	105 °C/W 32 °C/W		
T_j	Operating Temperature Range	-55 to + 150 °C		
T_{stg}	Storage Temperature Range	-55 to + 150 °C		

Rating And Characteristic Curves

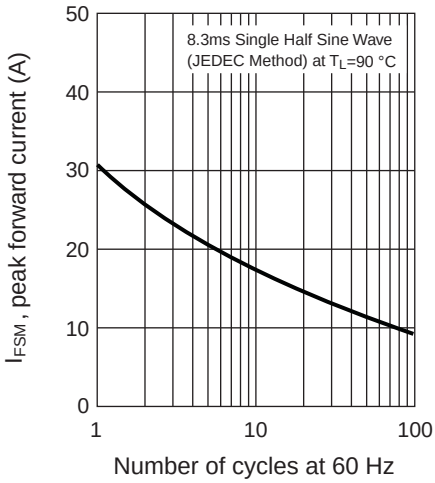
MAXIMUM FORWARD CURRENT
DERATING CURVE



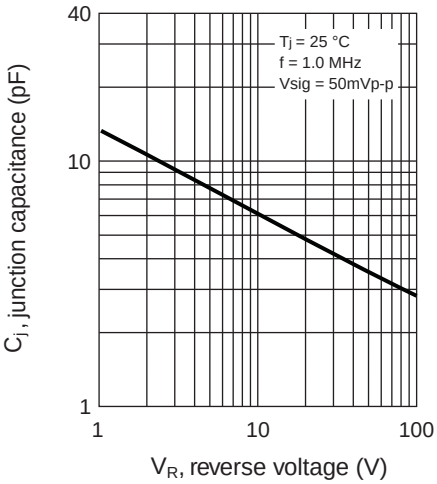
TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS PER LEG



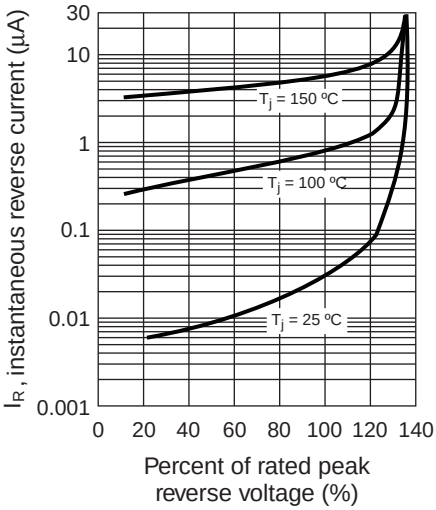
MAXIMUM NON-REPETITIVE
FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE



TYPICAL REVERSE CHARACTERISTICS



REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM