# LM120 THRU LM1100

### Surface Mount Glass Passivated Schottky Barrier Rectifier Reverse Voltage - 20 to 100 V Forward Current - 1 A

#### Features

- High current capability
- · High surge current capability
- · Low forward voltage drop
- For use in low voltage, high frequency inverters free wheeling ,and polarity protection applications

## Mechanical Data

- Case: MiniMELF (DO-213AA), molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any

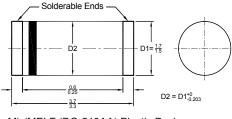
#### **Absolute Maximum Ratings and Characteristics**

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

		-	-					
Symbols	LM120	LM130	LM140	LM150	LM160	LM180	LM1100	Units
V <sub>RRM</sub>	20	30	40	50	60	80	100	V
V <sub>RMS</sub>	14	21	28	35	42	56	80	V
V <sub>DC</sub>	20	30	40	50	60	80	100	V
I <sub>F(AV)</sub>	1						А	
I <sub>FSM</sub>	40						A	
V <sub>F</sub>	0.55			0.7		0.85		V
I <sub>R</sub>	0.5 10						mA	
CJ	110						pF	
$R_{ extsf{ heta}JA}$	75						°C/W	
Tj	- 55 to + 125 - 55 to + 150					°C		
T <sub>stg</sub>	- 55 to + 150						°C	
	$V_{RRM}$ $V_{RMS}$ $V_{DC}$ $I_{F(AV)}$ $I_{FSM}$ $V_{F}$ $I_{R}$ $C_{J}$ $R_{\theta JA}$ $T_{j}$	$\begin{tabular}{ c c c c c } \hline V_{RRM} & 20 \\ \hline V_{RMS} & 14 \\ \hline V_{DC} & 20 \\ \hline I_{F(AV)} & & \\ \hline I_{FSM} & & \\ \hline V_{F} & & \\ \hline I_{R} & & \\ \hline C_{J} & & \\ \hline R_{\theta JA} & & \\ \hline T_{j} & -5 \\ \hline \end{tabular}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

 $^{1)}$  Measured at 1 MHz and applied reverse voltage of 4 V.

<sup>2)</sup> Thermal resistance junction to ambient 0.24" X 0.24"(6 X 6 mm) copper pads to each terminals



MiniMELF (DO-213AA) Plastic Package Dimensions in millimeters





