SMD Rectifier Diodes

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RoHS Compliant

Features:

- Plastic package has UL Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- For surface mounted applications
- High temperature : 250°C/10 seconds at terminals.

Mechanical Data:

Case<th::JEDEC Mini MELF(DO-213AA) molded plastic body</th>Terminals: Solder plated, solderable per MIL-STD-750, method 2026Polarity: Colour band denotes cathode endMounting Position: AnyWeight: 0.0005 ounce, 0.015 gramReverse Voltage: 50 to 1000 VoltsForward Current: 1 Ampere

Maximum Ratings and Electrical Characteristics:

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

Characteristics	Symbol	LL4001G+	LL4002G+	LL4004G+	LL4007G+	Unit
Max. Recurrent Peak Reverse Voltage	Vrrm	50	100	400	1000	
Max. RMS Voltage	VRMS	35	70	280	700	V
Max. DC Blocking Voltage	VDC	50	100	400	1000	
Max. Average Forward Rectified Current 0.375" (9.5mm) lead length at T _A = 75°C	l(AV)	1				A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave TA = 75°C	Іғѕм	25				
Max. Instantaneous Forward Voltage at 1A	VF	1.1				V
Max. DC Reverse Current at at Rated DC Blocking Voltage atTA = 25°C TA = 125°C	lr	5 100				μA
Typical Junction Capacitance (Note 1)	Сл	15				pF
Typical Thermal Resistance (Note 2) (Note 3)	Reja Rejl	75 30				°C/W
Operating Temperature Range	TJ	-65 to +175				°C
Storage Temperature Range	Tstg	-65 to +175				°C

Notes:

- 1. Measured at 1MHz and applied reverse voltage of 4 Volts
- 2. Thermal resistance from junction to ambient, 0.24"×0.24" (6mm×6mm) copper pads to each terminal
- 3. Thermal resistance from junction to terminal, 0.24"×0.24" (6mm×6mm) copper pads to each terminal
- 4. The typical data above is for reference only

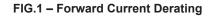
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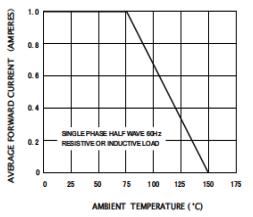


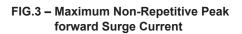


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Ratings and Characteristic Curves







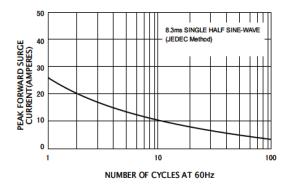
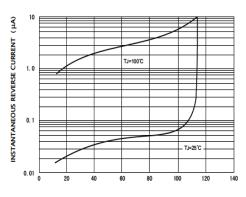


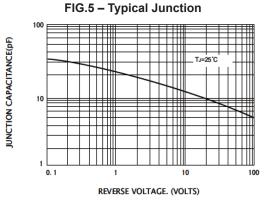
FIG.2 – Typical Instantaneous Forward characteristics

INSTANTANEOUS FORWARD VOLTAGE (VOLTS)

FIG.4 – Typical Reverse Characteristics



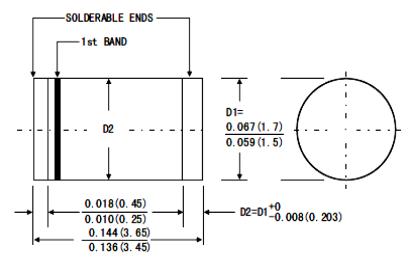
PERCENT OF RATED PEAK REVERSE VOLTAGE %



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MiniMELF (Do-213AA)



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number	
Rectifier Diode, Single, 50V, 1A, 1.1V, MiniMELF (DO-213AA)	LL4001G+	
Rectifier Diode, Single, 100V, 1A, 1.1V, MiniMELF (DO-213AA)	LL4002G+	
Rectifier Diode, Single, 400V, 1A, 1.1V, MiniMELF (DO-213AA)	LL4004G+	
Rectifier Diode, Single, 1kV, 1A, 1.1V, MiniMELF (DO-213AA)	LL4007G+	

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