

Microsemi Corp.

The diode experts

SANTA ANA, CA

SCOTTSDALE, AZ

For more information call:
(602) 941-6300**MLL4001 thru
MLL4004
(MELF)****APPLICATION**

This surface mountable rectifier series is similar to the 1N4001 thru 1N4004 registration in the DO-41 equivalent package except that it meets the new JEDEC surface mount outline DO-213AB. It is an ideal selection for applications of high density and low parasitic requirements. Due to its glass hermetic qualities, it may also be considered for high reliability applications when required by a source control drawing (SCD).

FEATURES

- ☒ Low cost
- ☒ High current capability
- ☒ Low leakage
- ☒ Low forward voltage
- ☒ High surge capability
- ☒ Hermetically sealed, double-slug glass construction
- ☒ Leadless package for surface mount technology
- ☒ Ideal for high density mounting
- ☒ Available on tape and reel (12mm tape*)

MAXIMUM RATINGS

-65°C to +175°C Operating Temperature Range.

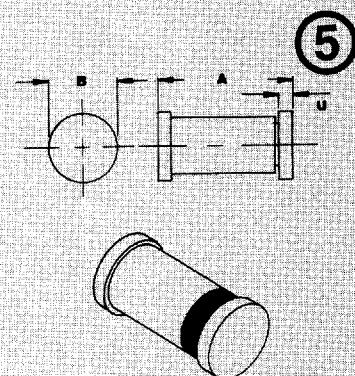
-65°C to +200°C Storage Temperature Range.

Current Derating 10.0mA/°C above 75°C.

ELECTRICAL CHARACTERISTICS

Type	Peak Reverse Voltage	Max. RMS Voltage	Max. DC Blocking Voltage	Max. Average Forward Rectified Current	Peak Forward Surge Current I_F (Surge)	Max. Forward Voltage @ 1A DC	Max. DC Reverse Current @ Rated DC Blocking Voltage	Typical Junction Capacitance @ $V_R = 4V$
	V	V	V	A	A	V	uA	pF
MLL4001	50	35	50	1.0	30	1.1	5.0	15
MLL4002	100	70	100	1.0	30	1.1	5.0	15
MLL4003	200	140	200	1.0	30	1.1	5.0	15
MLL4004	400	280	400	1.0	30	1.1	5.0	15

*The carrier tape consists of a plastic tape with "nests" having a size corresponding to the component's requirements. The sprocket holes are on one side of the tape. The blister tapes are sealed with a cover tape. The cathode side of the components in MELF and minicases are adjacent to the sprocket holes. Other orientation can be supplied on request.

**1 AMPERE
LEADLESS GLASS
RECTIFIERS**

DIM.	MILLIMETERS		INCHES	
	MIN.	MAX.	MIN.	MAX.
A	4.80	5.20	.189	.205
B	2.39	2.66	.094	.102
U	.41	.55	.016	.022

DO-213AB

**MECHANICAL
CHARACTERISTICS****Case:** Hermetically sealed glass with solder contact tabs at each end.**Finish:** All external surfaces are corrosion resistant, readily solderable.**Polarity:** Banded end is cathode.**Mounting Position:** Any

MLL4001 thru MLL4004 (MELF)

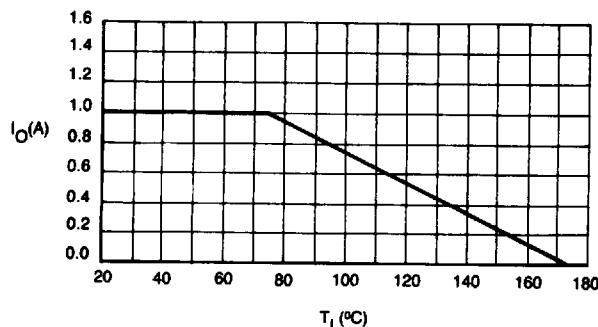


FIGURE 1
FORWARD DERATING CURVE

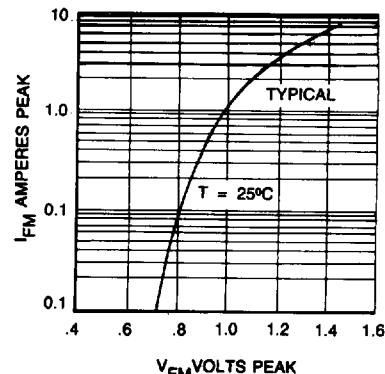


FIGURE 2
FORWARD CHARACTERISTICS

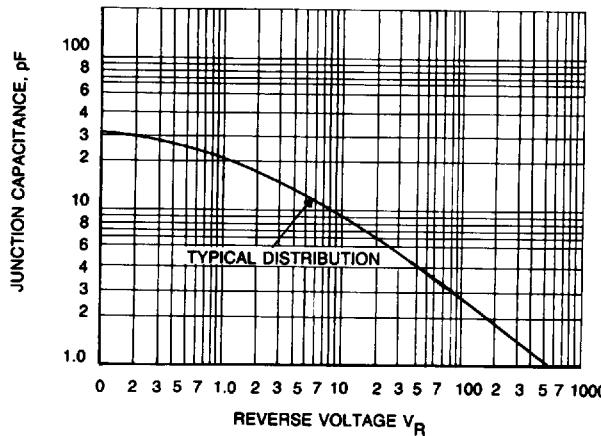


FIGURE 3
JUNCTION CAPACITANCE

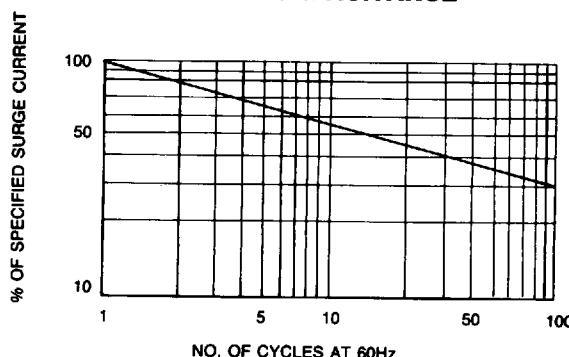


FIGURE 4
PEAK FORWARD SURGE CURRENT