



LL4001 THRU LL4007

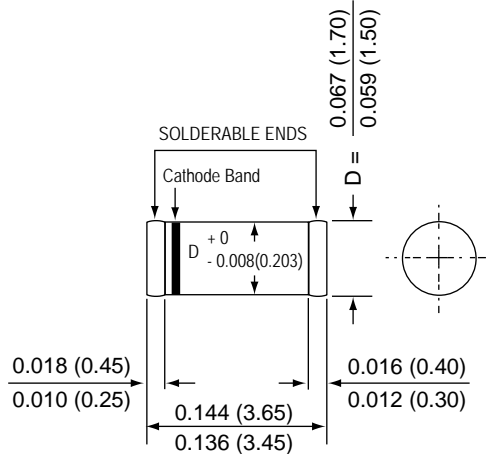
SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.0 Ampere



MINI-MELF(DO-213AA)



*Dimensions in inches and (millimeters)

FEATURES

- * GPRC (Glass Passivated Rectifier Chip) inside
- * Glass passivated cavity-free junction
- * The plastic package carries underwrites laboratory Flammability classification 94V-0
- * For surface mounted application

MECHANICAL DATA

Case : JEDEC MELF(DO-213AA) molded plastic
Terminals : Tin plated, solderable per MIL-STD-750, Method 2026
Polarity : Color band denotes cathode end
Mounting Position : Any
Weight : 0.033 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	LL4001	LL4002	LL4003	LL4004	LL4005	LL4006	LL4007	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current TA = 75 °C	I (AV)	1.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM	30							Amps
Maximum instantaneous forward voltage at 1.0 A	VF	1.0							Volts
Maximum DC reverse current TA=25 °C at rated DC blocking voltage TA=125 °C	IR	5 50							uA
Maximum reverse recovery time (NOTE 1)	trr	2000							nS
Typical junction capacitance (NOTE 2)	CJ	15							pF
Typical thermal resistance (NOTE 3)	R θJA R θJL	75 30							°C / W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175							°C

NOTES : (1) Reverse recovery test condition : IF 0.5A, IR=1.0A, Irr=0.25A
 (2) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
 (3) Thermal resistance from junction to ambient, 0.24 x 0.24" (6.0 x 6.0mm) copper pads to each terminals

RATINGS AND CHARACTERISTIC CURVES LL4001 THRU LL4007

FIG. 1 - FORWARD CURRENT DERATING CURVE

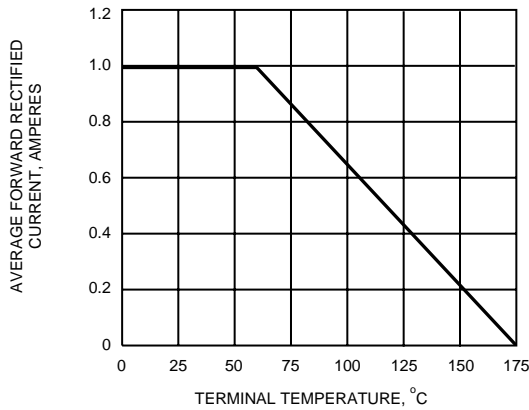


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

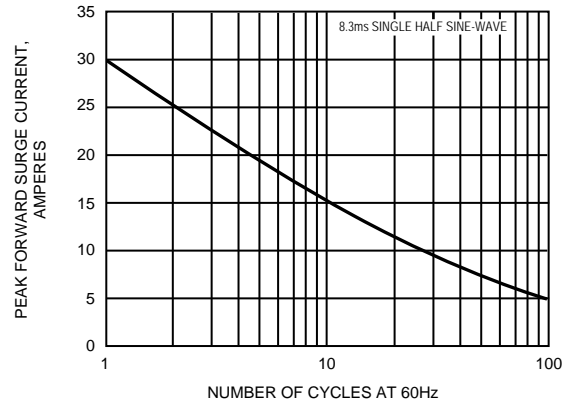


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

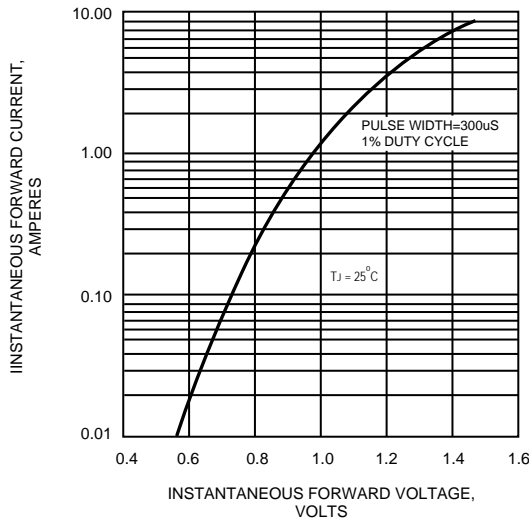


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

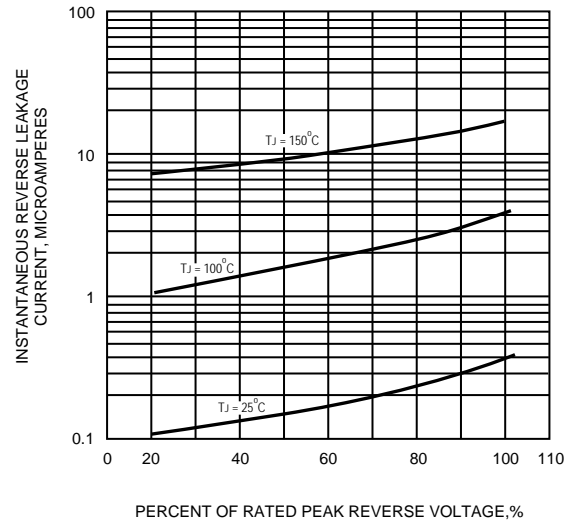


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

