- CURRENT REGULATOR DIODES
- LEADLESS PACKAGE FOR SURFACE MOUNT
- CONSTANT CURRENT OVER WIDE VOLTAGE RANGE
- HIGH SOURCE IMPEDANCE
- METALLURGICALLY BONDED

thru CDLL257

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C Storage Temperature: -65°C to +175°C DC Power Dissipation: 500 mW @ +50°C Power Derating: 4 mW / °C above +50°C

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified

TYPE NUMBER	REGULATOR CURRENT I p (mA) @ V _S = 25V (Note 1)			MINIMUM DYNAMIC IMPEDANCE @VS = 25V ZS (K)	MINIMUM KNEE IMPEDANCE @VK = 6.0 V ZK(K)	MAXIMUM LIMITING VOLTAGE @ IL = 0.8 l p (min)	PEAK OPERATING VOLTAGE
	NOM	MIN	MAX	(Note 2)	(Note 3)	V _L (VOLTS)	VOLTS
CDLL250	5.10	4.59	5.61	100	4.0	3.67	80
CDLL251	5.60	5.04	6.16	90	4.0	4.03	80
CDLL252	6.20	5.58	6.82	80	3.0	4.46	70
CDLL253	6.80	6.12	7.48	70	2.0	4.90	70
CDLL254	7.50	6.75	8.25	50	1.5	5.40	60
CDLL255	8.20	7.38	9.02	30	1.5	5.90	60
CDLL256	9.10	8.19	10.01	20	1.0	6.55	50
CDLL257	10.00	9.00	11.10	10	1.0	7.20	50

NOTE 1 Pulse measurement @ 1% duty cycle, 10 milliseconds maximum.

NOTE 2 Z_S is derived by superimposing A 90Hz RMS signal equal to 10% of V_S on V_S

NOTE 3 $Z_{\mbox{\scriptsize K}}$ is derived by superimposing A 90Hz RMS signal equal to 10% of V $_{\mbox{\scriptsize K}}$ on V $_{\mbox{\scriptsize K}}$

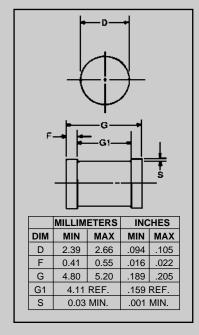


FIGURE 1

DESIGN DATA

CASE: DO-213AB, Hermetically sealed

glass case. (MELF, LL41)

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: (R_{OJEC}): 100 °C/W maximum at L = 0 inch

THERMAL IMPEDANCE: (ZQJX): 25

°C/W maximum

POLARITY: Diode to be operated with the band (cathode) end negative.

MOUNTING SURFACE SELECTION:

The Axial Coefficient of Expansion (COE) Of this Device is Approximately +6PPM/°C. The COE of the Mounting Surface System Should Be Selected To Provide A Suitable Match With This Device.



WEBSITE: http://www.microsemi.com