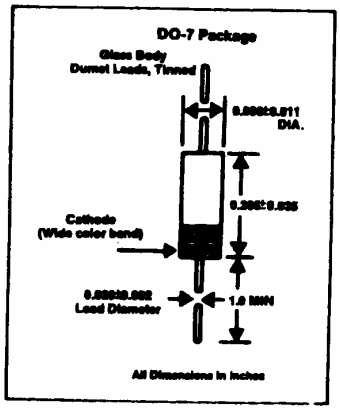
5 to 10 mA
Current Regulator
Field Effect Diodes

CIL-250 thru CIL-257

GEOMETRY 465

- Current Constant Over Wide Voltage Range
- High Source Impedance
- Connect in Parallel for Higher Current



MAXIMUM RATINGS

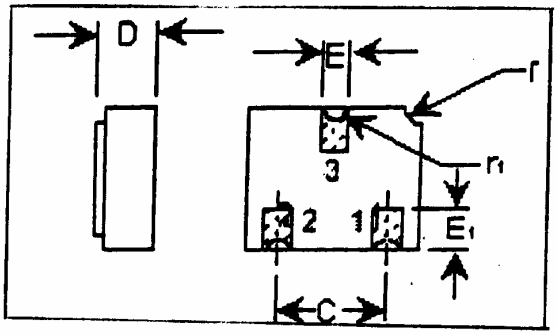
Parameter	Symbol	Value	Units
Peak Operating Voltage (T_J = −55°C to +200°C)	POV	See Table	Volts
Steady State Power Dissipation @ T_L = 75°C Derate above T_L = 75°C Lead Length = 3/8" (Forward or Reverse Bias)	P_D	600 4.8	mW mW/°C
Operating and Storage Junction Temperature Range	T_J, T_{stg}	−55 to +200	°C

ELECTRICAL SPECIFICATIONS: T_A = 25°C unless otherwise noted

Type No.	Regulator Current I_P (mA) @ V_T = 25V (1)			Typical Dynamic Impedance @ V_T = 25V	Typical Knee Impedance 4 @ V_K = 6.0V	Maximum Limiting Voltage @ I_L = 0.8 I_P (min)	POV Peak
CIL	nom	min	max	Z_T (KΩ)	Z_K(KΩ)	V_L (Volts)	OP. Volt
250	5.10	4.59	5.61	230	12	3.67	80
251	5.60	5.04	6.16	230	12	4.03	80
252	6.20	5.58	6.82	230	12	4.46	70
253	6.80	6.12	7.48	225	10	4.90	70
254	7.50	6.75	8.25	225	10	5.40	60
255	8.20	7.38	9.02	225	10	5.90	60
256	9.10	8.19	10.01	220	9	6.55	50
257	10.00	9.00	11.10	220	9	7.20	50

(1) Measure with 300μs, 2% duty cycle pulse.

(UB Package)



1- Anode
2-
3-Cathode