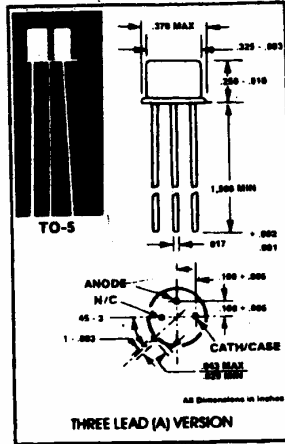


# VERY HIGH CURRENT Current Regulator Field Effect Diodes

CIL-350/A  
thru  
CIL-366/A



- High Current—to 50 mA
- Hermetically Sealed TO Case
- Ultra Low TC—<1000 ppm/°C
- Dynamic Impedance—>100 KΩ

Cond.	Symbol	Value	Units
T <sub>J</sub> -55° to +200°	POV	See Table	Volts
25°C (Note 2)	P <sub>D</sub>	1.5 6.6	W mW/°C
Temp Range	T <sub>J</sub> , T <sub>stg</sub>	-55 to +200	°C

## ELECTRICAL SPECIFICATIONS: T<sub>A</sub> = 25°C unless otherwise noted

Type No. CIL	Regulator Current I <sub>p</sub> (mA) @ V <sub>r</sub> = 25V (1)			Typical Dynamic Impedance Z <sub>T</sub> (Ω) @ V <sub>r</sub> = 25V	Typical Knee Impedance Z <sub>K</sub> (Ω) @ V <sub>r</sub> = 8.0V	Maximum Limiting Voltage @ I <sub>L</sub> = 0.8 I <sub>p</sub> (min) V <sub>L</sub> (Volts)	POV Peak OP. Volt
	nom	min	max				
350	11	9.9	12.1	100K	8K	6.0	45
351	12	10.8	13.2	100K	5K	6.0	45
352	13	11.7	14.3	100K	4K	6.0	45
353	15	13.5	16.5	90K	3K	6.0	45
354	16	14.4	17.6	90K	2.5K	6.0	45
355	18	16.2	19.8	80K	2K	6.0	45
356	20	18.0	22.0	70K	1K	6.0	45
357	22	19.8	24.2	60K	600	6.0	45
358	24	21.6	26.4	60K	600	6.0	45
359	27	24.3	29.7	60K	600	6.0	45
360	30	27.0	33.0	50K	600	6.0	45
361	33	29.7	36.3	40K	600	6.0	41
362	36	32.4	39.6	30K	600	6.0	38
363	39	35.1	42.9	20K	600	6.0	35
364	43	38.7	47.3	20K	600	6.0	32
365	47	42.3	51.7	15K	600	6.0	29
366	51	45.9	56.1	15K	600	6.0	27

1. Pulse measurement 1% Duty Cycle, 10 mS max
2. Maximum allowable dissipation can be increased to 2 watts by using a clip-on heat dissipator. (Wakefield Engineering 204CB or equivalent). This will allow a higher POV and/or a higher operating ambient temperature. Observe following precautions:
  - a. Do not exceed 45 Volts POV.
  - b. Derate at 11.4 mW/°C at ambients above 25°C.