TECHNICAL DATA
DATA SHEET 144, REV. A
FORMERLY PART NUMBER SHD52627

POSITIVE 5 VOLT VERY LOW DROPOUT VOLTAGE REGULATOR

FEATURES:

- **LOW DROPOUT VOLTAGE**
- **ISOLATED HERMETIC PACKAGE**
- **SIMILAR to INDUSTRY TYPE LM2940 - 5**

MAXIMUM RATINGS

All ratings are at T_A = 25°C unless otherwise specified.

Parameter	Conditions	Limit	Units
Input Voltage (≤ 100ms)		60	V
Lead Temperature	Soldering, 10 seconds	+300	°C
Power Dissipation (P_D)		Internally Limited	
Maximum Thermal Resistance Junction to Case (θ_{JC})		4.0	°C/W
Junction Temperature		150	°C
Storage Temperature Range		-65 to +150	°C

ELECTRICAL CHARACTERISTICS

Vin=10V, Iout=1A, Cout=22uF, TA= -55C to 125C unless otherwise noted.

Parameter	Conditions	Min	Max	Units
Output voltage	Iout = 5mA Iout = 1A Iout = 5mA, Tj=25C Iout = 1A, Tj=25C	4.75 4.75 4.85 4.85	5.25 5.25 5.15 5.15	V
Line regulation	Vin = 7V to 26V, Iout=5mA Vin = 7V to 26V, Iout=5mA, Tj=25C	-50 -40	50 40	mV
Load regulation	Iout = 50mA to 1A Iout = 50mA to 1A, Tj=25C	-100 -50	100 50	mV
Quiescent current	Iout=5mA Iout=1A Iout=5mA, Tj=25C Iout=1A, Tj=25C	0 0 0 0	20 100 15 50	mA
Output noise voltage[1]	Iout=5mA, 10Hz to 100kHz	0	700	uVrms
Ripple rejection[1]	1Vrms, 1kHz, Iout=5mA 1Vrms, 1kHz, Iout=5mA, Tj=25C	50 60		dB
Dropout voltage	Iout=1A Iout=100mA Iout=1A, Tj=25C Iout=100mA, Tj=25C	0 0 0 0	1000 300 700 200	mV
Short-circuit current	Vin=10V Vin=10V, Tj=25C	1.3 1.5		A

[1] not tested in production

SENSITRON

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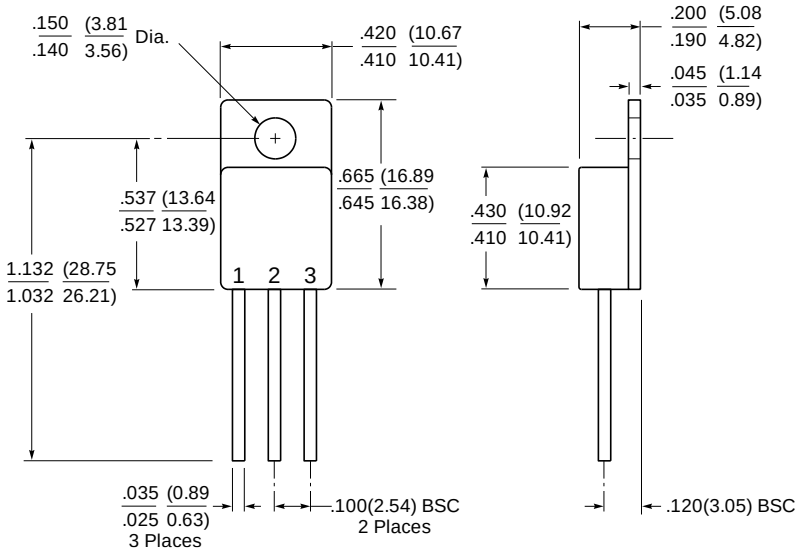
MECHANICAL DIMENSIONS:

TO-257



PINOUT TABLE

TYPE	PIN 1	PIN 2	PIN 3
TO - 257, 5V Regulator	V_{IN}	GROUND	V_{OUT}