



Solid State Devices, Inc.

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SPT35P3

**4 AMPS
60 VOLTS
DUAL NPN DARLINGTON
TRANSISTOR**

Designer's Data Sheet

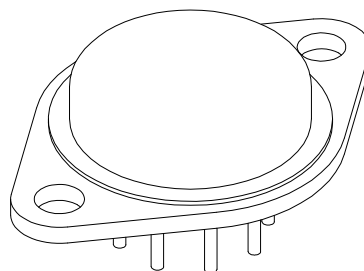
FEATURES:

- Cost-Saving Monolithic Design with Associated Commutating Diodes in A Single Package: Reduced Size, Improved Efficiency
- High Current Gain
- Low Saturation Voltage
- High Energy Capability
- Electrically Isolated Case
- Hermetically Sealed 8 Pin TO-3 Package
- High Current Replacement for PIC6006
- TX, TXV, and S-Level Screening Available. Consult Factory.

APPLICATIONS:

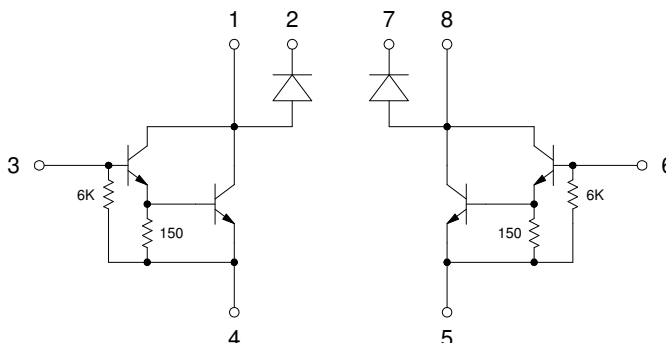
- Full Wave Bridge Circuits for Converters and Stepper-Motor Drives

TO-3, 8 Leads



MAXIMUM RATINGS		Symbol	Value	Units
Collector – Emitter Voltage		V _{CEO}	60	Volts
Collector – Base Voltage		V _{CBO}	60	Volts
Collector Current	Continuous Peak	I _C	4	Amps
		I _{CM}	8	
Base Current		I _B	0.2	Amps
Diode Average Forward Current		I _O	2	Amps
Total Device Dissipation	@ T _C = 25°C Per Darlington	P _D	60 30	Watts
Operating and Storage Temperature		T _J & T _{stg}	-65 to +175	°C
Thermal Resistance, Junction to Case	Per Device	R _{θJC}	2.5	°C/W
	Per Transistor		5.0	

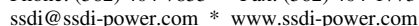
SCHEMATIC



NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.

DATA SHEET #: TR0080D

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