

BD 695 A

BD 697 • BD 697 A

BD 699 • BD 699 A

BD 701

PLASTIC MEDIUM-POWER NPN TRANSISTORS

... for use as output devices in complementary general-purpose amplifier applications.

- High DC Current Gain –
 $h_{FE} = 750$ (Min) @ $I_C = 3.0$ and 4.0 Adc
- Monolithic Construction
- BD 695A, 697, 697A, 699, 699A, 701 are complementary with BD 696A, 698, 698A, 700, 700A, 702

8.0 AMPERE DARLINGTON POWER TRANSISTORS NPN SILICON

45, 60, 80, 100 VOLTS
70 WATTS

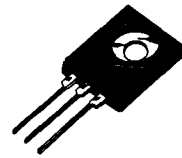
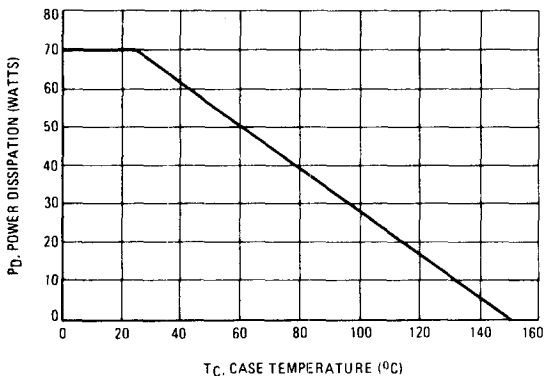
MAXIMUM RATINGS

Rating	Symbol	BD 695A	BD 697 BD 697A	BD 699 BD 699A	BD 701	Unit
		45	60	80	100	
Collector-Emitter Voltage	V_{CEO}	45	60	80	100	Vdc
Collector-Base Voltage	V_{CB}	45	60	80	100	Vdc
Emitter-Base Voltage	V_{EB}	5.0				Vdc
Collector Current	I_C	8.0				A dc
Base Current	I_B	0.1				A dc
Total Device Dissipation @ $T_C = 25^\circ\text{C}$ Derate above 25°C	P_D	70				Watts
Operating and Storage Junction Temperating Range	T_J, T_{stg}	-55 to +150				$^\circ\text{C}$

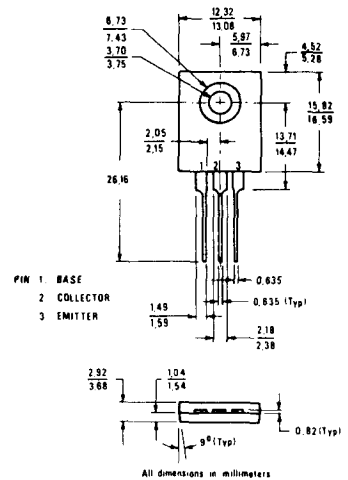
THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Thermal Resistance, Junction to Case	θ_{JC}	1.79	$^\circ\text{C/W}$

FIGURE 1 – POWER TEMPERATURE DERATING CURVE



HARDWARE AVAILABLE:
1. MICA WASHER – 14B 52600 FO13
2. NYLON ISOLATION WASHER



If lead bending is required use suitable clamps or other supports between transistor case and point of bend

Case 199_04

