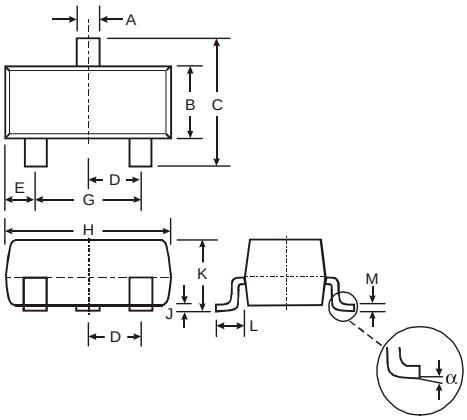
New Product Announcement
March 7, 2006

Announcing Expansion of SOT-23 Bipolar Transistor Product Line for High-Voltage and Medium Power Applications



SOT-23		
Dim	**Min**	**Max**
A	0.37	0.51
B	1.20	1.40
C	2.30	2.50
D	0.89	1.03
E	0.45	0.60
G	1.78	2.05
H	2.80	3.00
J	0.013	0.10
K	2.9∅	3.65∅
L	0.45	0.61
M	0.085	0.180
α	0°	8°
All Dimensions in mm		

Product Highlights

- **DN350T05 and DP350T05**
  1. Single 350V Bipolar Transistors in SOT-23
     a) NPN: DN350T05
     b) Complementary PNP: DP350T05
  2. Qualified to AEC-Q101 Standards for High Reliability
  3. Highest Collector-to-Emitter Breakdown Voltage Rating among Diodes, Inc.'s Bipolar Transistor Product Line (350V)
  4. RoHS Compliant and "Green" Product
  5. Ideal for High Voltage Applications

- **DNBT8105 and DPBT8105**
  1. Single 1A Medium Power Bipolar Transistors in SOT-23
     a) NPN: DNBT8105
     b) Complementary PNP: DPBT8105
  2. Qualified to AEC-Q101 Standards for High Reliability
  3. Low Collector-to-Emitter Saturation Voltage Vce(sat)
  4. RoHS Compliant and "Green" Product
  5. Ideal for Medium Power Applications

Part Number	Polarity	$V_{CE(SAT)}$ (V)	
		@ I_C = 500mA, I_B = 50mA	@ I_C = 1000mA I_B = 100mA
DNBT8105	NPN	0.25	0.5
DPBT8105	PNP	0.3	0.6

Availability

- Samples: ***Now Available!***
- Production Quantity Lead Time: 6-10 weeks
- Data Sheets available ***NOW*** at ***www.diodes.com***
  Enter selected part numbers into our website Product Data Sheet search field, or click:

  DN350T05 **DNBT8105**
  DP350T05 **DPBT8105**

For more information, contact the Sales Department at
Diodes Incorporated Tel (805) 446-4800 / Fax (805) 446-4850 **www.diodes.com**

Applications

- Power Management Circuits
- Inverters
- Lighting Ballasts
- Motor and Solenoid Drivers
- Buffering and Amplification Circuits
- Switching Regulator Circuits
- DC – DC Converters
- Voltage Regulation

Crosses to Other Manufacturers' Parts

Diodes Inc. Part	Zetex	OnSemi	Central Semi
DN350T05	FMMT6517	MMBT6517	CMPT6517
DP350T05	FMMT6520	MMBT6520	CMPT6520
DNBT8105	FMMT491	-	-
DPBT8105	FMMT591	-	-