

**SEMELAB**

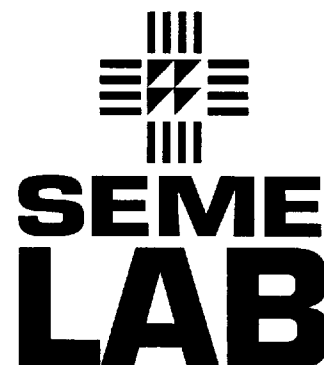
SEMELAB LTD T-27-01

**BI-POLAR TRANSISTORS (CECC AND HIGH REL) & HIGH ENERGY**

| Type Number | Rel Code | Pol | Package | Vceo | Ic (cont) | Hfe    | @ Vce/Ic | fT   | Pd  |
|-------------|----------|-----|---------|------|-----------|--------|----------|------|-----|
| 2N4898      | CECC     | PNP | T066    | 40   | 4         | 20-100 | 1/0.5    | 3M   | 25  |
| 2N4899      | CECC     | PNP | T066    | 60   | 4         | 20-100 | 1/0.5    | 3M   | 25  |
| 2N4900      | CECC     | PNP | T066    | 80   | 4         | 20-100 | 1/0.5    | 3M   | 25  |
| 2N4901      | HR       | PNP | T03     | 40   | 5         | 20-80  | 2/1      | 4M   | 87  |
| 2N4902      | HR       | PNP | T03     | 60   | 5         | 20-80  | 2/1      | 4M   | 87  |
| 2N4903      | HR       | PNP | T03     | 80   | 5         | 20-80  | 2/1      | 4M   | 87  |
| 2N4904      | HR       | PNP | T03     | 40   | 5         | 25-100 | 2/2.5    | 4M   | 87  |
| 2N4905      | HR       | PNP | T03     | 60   | 5         | 25-100 | 2/2.5    | 4M   | 87  |
| 2N4906      | HR       | PNP | T03     | 80   | 5         | 25-100 | 2/2.5    | 4M   | 87  |
| 2N4907      | REQ      | PNP | T03     | 40   | 10        | 20-80  | 4/4      | 4M   | 150 |
| 2N4908      | REQ      | PNP | T03     | 60   | 10        | 20-80  | 4/4      | 4M   | 150 |
| 2N4909      | REQ      | PNP | T03     | 80   | 10        | 20-80  | 4/4      | 4M   | 150 |
| 2N4910      | CECC     | NPN | T066    | 40   | 4         | 20-100 | 1/0.5    | 3M   | 25  |
| 2N4911      | CECC     | NPN | T066    | 60   | 4         | 20-100 | 1/0.5    | 3M   | 25  |
| 2N4912      | CECC     | NPN | T066    | 80   | 4         | 20-100 | 1/0.5    | 3M   | 25  |
| 2N4913      | HR       | NPN | T03     | 40   | 5         | 25-100 | 2/2.5    | 4M   | 88  |
| 2N4914      | HR       | NPN | T03     | 60   | 5         | 25-100 | 2/2.5    | 4M   | 88  |
| 2N4915      | HR       | NPN | T03     | 80   | 5         | 25-100 | 2/2.5    | 4M   | 88  |
| 2N4928      | HR       | PNP | T039    | 100  | 0.1       | 20min  | 10/1m    | 100M | 0.6 |
| 2N4929      | HR       | PNP | T039    | 150  | 50m       | 25-250 | 10/10m   | 100M | 1   |
| 2N4930      | HR       | PNP | T039    | 200  | 50m       | 25-200 | 10/10m   | 20M  | 1   |
| 2N4931      | HR       | PNP | T039    | 250  | 0.5       | 20min  | 10/1m    | 20M  | 1   |
| 2N4937      | HR       | PNP | T077    | 40   | 50m       | 50min  | 10/1m    | 300M | 0.5 |
| 2N4938      | HR       | PNP | T077    | 40   | 50m       | 50min  | 10/1m    | 300M | 0.5 |
| 2N4939      | HR       | PNP | T077    | 40   | 50m       | 50min  | 10/1m    | 300M | 0.5 |
| 2N4957      | REQ      | PNP | T072    | 30   | 30m       | 20min  | 10/2m    |      | 0.2 |
| 2N4999      | HR       | PNP | T059    | 80   | 2         | 30-90  | 5/1      | 50M  | 30  |
| 2N5000      | HR       | NPN | T059    | 80   | 2         | 70-200 | 5/1      | 60M  | 30  |
| 2N5001      | HR       | PNP | T059    | 80   | 2         | 70-200 | 5/1      | 60M  | 30  |
| 2N5001S     | HR       | NPN | T059    | 80   | 2         | 70-200 | 5/1      | 60M  | 30  |
| 2N5002      | HR       | NPN | T059    | 80   | 2         | 30-90  | 5/2.5    | 60M  | 50  |
| 2N5010      | HR       | NPN | T039    | 500  | 0.5       | 30-180 | 10/25m   | 20M  | 2   |
| 2N5011      | HR       | NPN | T039    | 600  | 0.5       | 30-180 | 10/25m   | 20M  | 2   |
| 2N5012      | HR       | NPN | T039    | 700  | 0.5       | 30-180 | 10/25m   | 20M  | 2   |
| 2N5013      | HR       | NPN | T039    | 800  | 0.5       | 30-180 | 10/25m   | 20M  | 2   |
| 2N5014      | HR       | NPN | T039    | 900  | 0.5       | 30-180 | 10/25m   | 20M  | 2   |
| 2N5015      | HR       | NPN | T039    | 1000 | 0.5       | 30-180 | 10/25m   | 20M  | 2   |
| 2N5015S     | HR       | NPN | T039    | 1000 | 0.5       | 30-180 | 10/20m   | 20M  | 2   |
| 2N5023      | HR       | PNP | T039    | 30   | 0.5       | 40-100 | 1/0.5    | 200M | 1   |
| 2N5038      | CECC     | NPN | T03     | 90   | 20        | 20-100 | 5/12     | 50M  | 140 |
| 2N5039      | CECC     | NPN | T03     | 75   | 20        | 20-100 | 5/10     | 50M  | 140 |
| 2N5050      | HR       | NPN | T066    | 125  | 2         | 25-100 | 5/0.75   | 10M  | 40  |
| 2N5051      | HR       | NPN | T066    | 150  | 2         | 25-100 | 5/0.75   | 10M  | 40  |
| 2N5052      | HR       | NPN | T066    | 200  | 2         | 25-100 | 5/0.75   | 10M  | 40  |
| 2N5058      | REQ      | NPN | T039    | 300  | 0.15      | 35-150 | 25/30m   | 30M  | 1   |
| 2N5059      | REQ      | NPN | T039    | 250  | 0.15      | 35-150 | 25/30m   | 30M  | 1   |
| 2N5067      | REQ      | NPN | T03     | 40   | 5         | 20-80  | 2/1      | 4M   | 88  |
| 2N5068      | REQ      | NPN | T03     | 60   | 5         | 20-80  | 2/1      | 4M   | 88  |
| 2N5069      | REQ      | NPN | T03     | 80   | 5         | 20-80  | 2/1      | 4M   | 88  |
| 2N5092      | REQ      | NPN | T039    | 350  | 1         | 15-250 | 10/0.1   | 50M  | 2   |
| 2N5095      | HR       | NPN | T039    | 400  | 1         | 15-250 | 10/0.1   | 50M  | 2   |
| 2N5097      | HR       | NPN | T039    | 450  | 1         | 15-250 | 10/0.1   | 50M  | 2   |
| 2N5099      | HR       | NPN | T039    | 550  | 1         | 15-250 | 10/0.1   | 50M  | 2   |
| 2N5109      | REQ      | NPN | T039    | 20   | 0.5       | 40-120 | 15/50m   | 1.2G | 2.5 |
| 2N5151      | HR       | PNP | T039    | 80   | 5         | 30-90  | 5/2.5    | 60M  | 10  |
| 2N5151S     | HR       | PNP | T039    | 80   | 5         | 30-90  | 5/2.5    | 60M  | 10  |
| 2N5152      | HR       | NPN | T039    | 80   | 5         | 30-90  | 5/2.5    | 60M  | 10  |

HI-REL

# HERMETIC SURFACE MOUNT DISCRETE SEMICONDUCTORS



## DUEL CERAMIC HERMETICALLY SEALED SURFACE MOUNT DEVICES

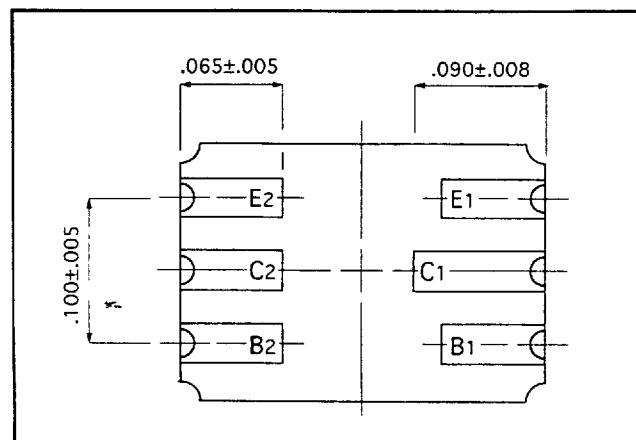
|             |             |
|-------------|-------------|
| 2N2060DCSM  | 2N3347DCSM  |
| 2N2221ADCSM | 2N3348DCSM  |
| 2N2221DCSM  | 2N3349DCSM  |
| 2N2222ADCSM | 2N3350DCSM  |
| 2N2222DCSM  | 2N3351DCSM  |
| 2N2369ADCSM | 2N3352DCSM  |
| 2N2453DCSM  | 2N3410DCSM  |
| 2N2639DCSM  | 2N3680DCSM  |
| 2N2640DCSM  | 2N3807DCSM  |
| 2N2641DCSM  | 2N3808DCSM  |
| 2N2642DCSM  | 2N3809DCSM  |
| 2N2643DCSM  | 2N3810DCSM  |
| 2N2644DCSM  | 2N3811ADCSM |
| 2N2894DCSM  | 2N3811DCSM  |
| 2N2906ADCSM | 2N3904DCSM  |
| 2N2907ADCSM | 2N4937DCSM  |
| 2N2913DCSM  | 2N4938DCSM  |
| 2N2914DCSM  | BFX80DCSM   |
| 2N2915DCSM  | BFX81DCSM   |
| 2N2916DCSM  | BFY81DCSM   |
| 2N2917DCSM  | BFY82DCSM   |
| 2N2918DCSM  | BFY84DCSM   |
| 2N2919DCSM  |             |
| 2N2920DCSM  |             |
| 2N2979DCSM  |             |
| 2N3209DCSM  |             |
| 2N3250DCSM  |             |

In order to provide transistors and diodes with excellent tracking with temperature and excellent matching under all conditions, SEMELAB offers a duel die ceramic range.

Like the smaller single die SOT23 CSM device, this variant is intended for high reliability applications from use in space vehicles through to application in harsh environments where the plastic version is regarded as inadequate.

Devices are available to customers own specification and with release in accordance with SEMELAB's AQAP1 approval. CECC approved devices will be available in 1993.

Information on this line and other High Reliability products is available from SEMELAB or any any of our Agents.



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