

我々は、独自の薄膜製品以外に、次の製品を取り扱っております。In addition to our own products, we supply the following products in JAPAN.

# TRANSISTOR, LINEAR IC トランジスタ, IC

HI-SINCERITY MICROELECTRONICS CORP.

## 小信号トランジスタ SMALL SIGNAL TRANSISTORS

## パワートランジスタ POWER TRANSISTORS

| HSMC PART NUMBER | NPN or PNP | MAXIMUM RATINGS   |                   |                |                                    | HSMC PIN STYLE 123 | PACKAGE         |
|------------------|------------|-------------------|-------------------|----------------|------------------------------------|--------------------|-----------------|
|                  |            | BV <sub>CE0</sub> | BV <sub>CEO</sub> | I <sub>c</sub> | P <sub>o</sub> T <sub>A</sub> 25°C |                    |                 |
|                  |            | (V)               | (V)               | (mA)           | (mW)                               |                    |                 |
| HMBT1815         | NPN        | 60                | 50                | 150            | 125                                |                    | SOT-23 (SC-59)  |
| HMBT1015         | PNP        | 50                | 50                | 150            | 125                                |                    |                 |
| HMBT2222A        | NPN        | 75                | 40                | 600            | 350                                |                    |                 |
| HMBT2907A        | PNP        | 60                | 60                | 600            | 350                                |                    |                 |
| HBC807           | PNP        | 50                | 45                | 800            | 310                                |                    |                 |
| HBC817           | NPN        | 50                | 45                | 800            | 310                                |                    |                 |
| HMBT5087         | PNP        | 50                | 50                | 50             | 350                                |                    |                 |
| HMBT5088         | NPN        | 35                | 30                | 50             | 350                                |                    |                 |
| HMBT8050         | NPN        | 25                | 20                | 700            | 350                                |                    |                 |
| HMBT8550         | NPN        | 25                | 20                | 700            | 350                                |                    |                 |
| HSC1815          | NPN        | 60                | 50                | 150            | 400                                | ECB                | TO-92 (TO-92SP) |
| HSA1015          | PNP        | 50                | 50                | 150            | 400                                | ECB                |                 |
| HPN2222A         | NPN        | 75                | 40                | 600            | 625                                | EBC                |                 |
| HPN2907A         | PNP        | 60                | 60                | 500            | 600                                | EBC                |                 |
| HSC945           | NPN        | 60                | 50                | 100            | 250                                | ECB                |                 |
| HSA733           | PNP        | 60                | 50                | 100            | 250                                | ECB                |                 |
| HE9012           | PNP        | 40                | 30                | 500            | 625                                | EBC                |                 |
| HE9013           | NPN        | 40                | 30                | 500            | 625                                | EBC                |                 |
| HLB121A          | NPN        | 550               | 400               | 100            | 900                                | ECB                |                 |
| HLB122A          | NPN        | 400               | 700               | 100            | 900                                | ECB                |                 |
| HMPS8099         | NPN        | 80                | 80                | 500            | 625                                | EBC                |                 |
| HMPS8599         | PNP        | 80                | 80                | 500            | 625                                | EBC                |                 |
| H2N3904          | NPN        | 60                | 40                | 200            | 625                                | EBC                |                 |
| H2N3906          | PNP        | 40                | 40                | 200            | 625                                | EBC                |                 |
| HBC546           | NPN        | 80                | 65                | 100            | 500                                | CBE                |                 |
| HBC556           | PNP        | 80                | 65                | 100            | 500                                | CBE                |                 |
| HM2222A          | NPN        | 75                | 40                | 600            | 1000                               |                    | SOT-89          |
| HM2907A          | PNP        | 60                | 60                | 600            | 1000                               |                    |                 |
| HM3019           | NPN        | 140               | 80                | 1000           | 1200                               |                    |                 |
| HM3904           | NPN        | 60                | 40                | 200            | 1000                               |                    |                 |
| HM3906           | PNP        | 40                | 40                | 200            | 1000                               |                    |                 |
| HM4033           | PNP        | 80                | 80                | 1000           | 1200                               |                    |                 |
| HM772            | PNP        | 40                | 30                | 3000           | 1500                               |                    |                 |
| HM882            | NPN        | 40                | 30                | 3000           | 1500                               |                    |                 |

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|------------------|------------|-------------------|-------------------|----------------|------------------------------------|--------------------|--------------------|-------------------|
|                  |            | BV <sub>CE0</sub> | BV <sub>CEO</sub> | I <sub>c</sub> | P <sub>o</sub> T <sub>C</sub> 25°C |                    |                    |                   |
|                  |            | (V)               | (V)               | (A)            | (W)                                |                    |                    |                   |
| HJ1109           | PNP        | 160               | 160               | 0.1            | 1.25                               | BCE                | TO-251/252 (D-PAK) |                   |
| HJ122            | NPN        | 100               | 100               | 8              | 20                                 | BCE                |                    |                   |
| HJ127            | PNP        | 100               | 100               | 8              | 20                                 | BCE                |                    |                   |
| HJ1609           | NPN        | 160               | 160               | 0.1            | 1.25                               | BCE                |                    |                   |
| HJ2955           | PNP        | 70                | 60                | 10             | 40                                 | BCE                |                    |                   |
| HJ3055           | NPN        | 70                | 60                | 10             | 40                                 | BCE                |                    |                   |
| HJ772            | PNP        | 40                | 30                | 7              | 10                                 | BCE                |                    |                   |
| HJ882            | NPN        | 40                | 30                | 7              | 10                                 | BCE                |                    |                   |
| HT649A           | PNP        | 180               | 160               | 3              | 20                                 | ECB                |                    | TO-126 (TO-120ML) |
| HT669A           | NPN        | 180               | 160               | 3              | 20                                 | ECB                |                    |                   |
| HT772            | PNP        | 40                | 30                | 3              | 10                                 | ECB                |                    |                   |
| HT882            | NPN        | 40                | 30                | 3              | 10                                 | ECB                |                    |                   |
| HBD237           | NPN        | 80                | 80                | 2              | 25                                 | ECB                |                    |                   |
| HBD238           | PNP        | 80                | 80                | 2              | 25                                 | ECB                |                    |                   |
| HBD677           | NPN        | 60                | 60                | 4              | 40                                 | ECB                |                    |                   |
| HBD678           | PNP        | 60                | 60                | 4              | 40                                 | ECB                |                    |                   |
| HTIF102          | NPN        | 100               | 100               | 8              | 80                                 | BCE                | TO-220 (TO-220FP)  |                   |
| HTIF107          | PNP        | 100               | 100               | 8              | 80                                 | BCE                |                    |                   |
| HTIF31C          | NPN        | 100               | 100               | 3              | 40                                 | BCE                |                    |                   |
| HTIF32C          | PNP        | 100               | 100               | 3              | 40                                 | BCE                |                    |                   |
| HTIF41C          | NPN        | 100               | 100               | 6              | 65                                 | BCE                |                    |                   |
| HTIF42C          | PNP        | 100               | 100               | 6              | 65                                 | BCE                |                    |                   |
| HSC2625          | NPN        | 450               | 400               | 10             | 80                                 | BCE                | TO-3P              |                   |
| H2N6388          | NPN        | 80                | 80                | 10             | 65                                 | BCE                | TO-220AB           |                   |
| H2N6688          | PNP        | 80                | 80                | 10             | 65                                 | BCE                |                    |                   |
| HD44H11          | NPN        | 80                | 80                | 10             | 50                                 | BCE                |                    |                   |
| HD45H11          | PNP        | 80                | 80                | 10             | 50                                 | BCE                |                    |                   |
| HSB507           | PNP        | 60                | 60                | 3              | 30                                 | BCE                |                    |                   |
| HSD313           | NPN        | 60                | 60                | 3              | 30                                 | BCE                |                    |                   |
| HTIP102          | NPN        | 100               | 100               | 8              | 80                                 | BCE                |                    |                   |
| HTIP107          | PNP        | 100               | 100               | 8              | 80                                 | BCE                |                    |                   |

## リニアIC LINEAR ICs

### ■Comparator

| HSMC PART NUMBER | SUPPLY VOLTAGE (V) | I/P BIAS CURRENT (nA) | I/P OFFSET VOLTAGE (mV) | I/P OFFSET CURRENT (nA) | RESPONSE TIME (μS) | PACKAGE  |
|------------------|--------------------|-----------------------|-------------------------|-------------------------|--------------------|----------|
| H393P            | -18                | 250                   | ±5                      | ±50                     | 1.3                | 8Pin DIP |

| HSMC PART NUMBER | SUPPLY VOLTAGE (V) | I/P BIAS CURRENT (μA) | I/P OFFSET VOLTAGE (mV) | I/P OFFSET CURRENT (μA) | RESPONSE TIME (μS) | PACKAGE   |
|------------------|--------------------|-----------------------|-------------------------|-------------------------|--------------------|-----------|
| H339P            | -18                | 0.25                  | 5                       | 0.05                    | 1.3                | 14Pin DIP |

| HSMC PART NUMBER | SUPPLY VOLTAGE (V) | I/P BIAS CURRENT (nA) | I/P OFFSET VOLTAGE (mV) | I/P OFFSET CURRENT (nA) | O/P VOLTAGE VOL | O/P VOLTAGE VOH | PACKAGE  |
|------------------|--------------------|-----------------------|-------------------------|-------------------------|-----------------|-----------------|----------|
| H358P            | 32or ±16           | 45~250                | +2~±7                   | ±5~±50                  | 5               | 28              | 8Pin DIP |

### ■PWM. Current Mode

| HSMC PART NUMBER | O/P VOLTAGE (V) | LINE REGULATION (mV) | O/P NOISE VOLTAGE (μV) | SUPPLY VOLTAGE (V) | O/P CURRENT (A) | ANALOG INPUT (V)     | START-UP CURRENT (mA) | START THRESHOLD (V) | PACKAGE  |
|------------------|-----------------|----------------------|------------------------|--------------------|-----------------|----------------------|-----------------------|---------------------|----------|
| H3842P           | 1.9~5.1         | 6~20                 | 50                     | 30                 | ±1              | -0.3~V <sub>cc</sub> | 0.5                   | 14.5~17.5           | 8Pin DIP |

| HSMC PART NUMBER | SUPPLY VOLTAGE (V) | O/P COLLECTOR VOLTAGE (V) | O/P COLLECTOR CURRENT (mA) | REFERENCE VOLTAGE (V) | OSCILLATOR FREQUENCY (HZ) | PD (W) | OPERATING TEMPERATURE O/P LOW (nA) | PACKAGE   |
|------------------|--------------------|---------------------------|----------------------------|-----------------------|---------------------------|--------|------------------------------------|-----------|
| H494P            | 7~40               | 0.3~4.0                   | 200                        | 4.75~5.25             | 1K~300K                   | 1.04   | 0~70                               | 16Pin DIP |

### ■Shunt Regulators

| HSMC PART NUMBER | CATHODE VOLTAGE (V) | REFERENCE I/P CURRENT (mA) | REFERENCE I/P VOLTAGE (V) | DYNAMIC IMPEDANCE (Ω) | OFF-STATE CATHODE CURRENT (μA) | MIN. CATHODE CURRENT FOR REGULATION (mA) | I <sub>REF</sub> (DEV) (μA) | PACKAGE |
|------------------|---------------------|----------------------------|---------------------------|-----------------------|--------------------------------|--|-----------------------------|---------|
| HTL431AA         | 37(MAX)             | 0.05~150                   | 2.5±2%                    | 0.2~0.5               | 0.1~1.0                        | 0.4~1.0                                  | 0.4~1.2                     | TO-92   |
| HTL431BA         | 37(MAX)             | 0.05~150                   | 2.5±1%                    | 0.2~0.5               | 0.1~1.0                        | 0.4~1.0                                  | 0.4~1.2                     |         |
| HTL431CA         | 37(MAX)             | 0.05~150                   | 2.5~0.5%                  | 0.2~0.5               | 0.1~1.0                        | 0.4~1.0                                  | 0.4~1.2                     |         |
| HTL431AM         | 37(MAX)             | 0.05~10                    | 2.5±2%                    | 0.2~0.5               | 0.1~1.0                        | 0.4~1.0                                  | 0.4~1.2                     |         |
| HTL431BM         | 37(MAX)             | 0.05~10                    | 2.5±1%                    | 0.2~0.5               | 0.1~1.0                        | 0.4~1.0                                  | 0.4~1.2                     | SOT-89  |
| HTL431CM         | 37(MAX)             | 0.05~10                    | 2.5±0.5%                  | 0.2~0.5               | 0.1~1.0                        | 0.4~1.0                                  | 0.4~1.2                     |         |

●詳細仕様は、データブックを用意しておりますのでご請求下さい。A databook which provides circuits and details on characteristics is available on request.

電流用シリコン整流素子も取り扱っております。

We deal in power semiconductor rectifiers. A databook which provides details on characteristics is available on request.