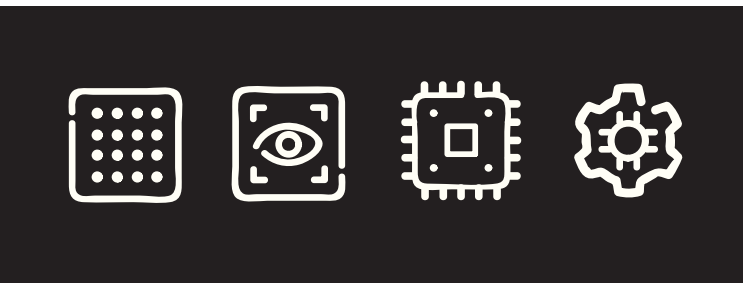


INTRODUCTION

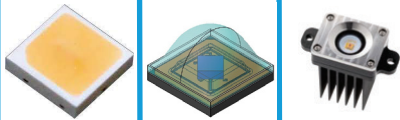
# Believe

## SRL





**TOYODA GOSEI**



**HIGH EFFICIENCY LEDS**

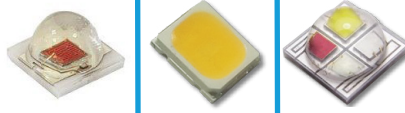
- Top Led-3030
- White (2700K-3000K-4200K-6500K)

**HIGH EFFICIENCY UVC LED 3535**

- typ.90mw @ 350mA @ 275 nm
- typ.50mw @ 350mA @ 275 nm
- typ.7mw @ 40mA @ 275 nm
- 1.35x1.35

**UVC-LED** light module 350 mA  
275 nm

**UVC-LED** water purification unit  
275 nm



**POWER LEDS**

- Federal 3535 1 - 3W,White/ Monocolor
- Federal 5050 4-30W,White/RGB
- COB Series

**PLCC LEDS**

- PLCC 2835/3528/3030/3014/2415/ 5050

**OPTICS**

- Secondary lens, Reflector, Asymmetrical

**AUTOMOTIVE LED AEC-Q102**



**HIGH EFFICIENCY LEDS**

- RGB - Monocolor
- PLCC
- Through-hole LEDs oval/round/ piranha
- Light selections based on intensity

**LED LIGHTING**

- Lightfields: 200-12000lm (PLCC packages)
- Lightbars: 30-400lm

**LED DISPLAY**

- RGB LED matrix Pitch 2/5/10mm



**HIGH EFFICIENCY LEDS**

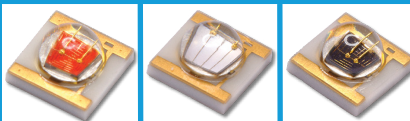
- White – Monocolor – RGB
- PLCC – Power – 3 /5mm Packages
- Light selections based on Intensity

**LED MODULES**

- Lightfields: 200-12000lm
- Lightbars: 30-400lm

**LAMPS**

- High Bay Series
- Arena Pro Series
- Work Lamp Series
- Heavy duty lamps series



**POWER LEDS**

- UV SERIES
- UVB/UVC 3535
- IR SERIES
- SINGLE COLOR 3535 SERIES (Red, Blue, Green, White)
- RGBW 5050 SERIES
- MULTICOLORS T SERIES
- Special Wavelengths
- Horticultural and Aquarium light
- Stage lighting light
- Horticultural



**LED LIGHTING**

- All-Ways-On™ LED Driver
- DC/DC Converter
- DC/DC Controller
- AC/DC Controller

**RGB LIGHTING**

- RGB LED Driver
- AMUSE LED Driver

**AUTOMOTIVE FULL-ARRAY LOCAL DIMMING LED BACKLIGHT**



#### OLED

- OLED with touch Panel
- Narrow border
- FC-PMOLED (160dpi & 200dpi)

#### OLED FLEXIBLE OLED TRASPARENT OLED ROUND

#### OLED LIGHTING MINI LED DISPLAY MONOCHROME 0.42 TO 3.8 INCH WHITE, YELLOW, BLUE FULL COLOR 0.95 TO 1.91 INCH



#### GRAPHICS & ALPHANUMERIC DISPLAYS LCM MODULES

- standard graphics and alphanumeric modules
- Modules with custom designs
- TFT color display, STN technology, FSTN
- IC (COB-COG-TAB-COF)
- Touch panel modules

#### LCD DISPLAYS

- Clock, calculator, tools and counters
- Consumer, communication, video and audio



#### LCD PANELS

- High brightness sunlight readable LCD
- Trasparent
- Bar type LCD
- Curved LCD
- LCD monitor with touch panel glass thickness 2-8mm
- Android or PC board solutions

#### PANEL KIT OPEN/ CLOSED FRAME

#### PROFLAT BAR AND SHELF TYPE MONITOR



#### VOLTAGE REFERENCE

- Precision shunt regulator

#### VOLTAGE REGULATOR

- Standard Linear
- LDO/VLDO/CMOS ULDO
- DDR Termination Regulator & OCP IC
- Step-down/ Step-up Switching

#### CONVERTER & CONTROLLER OPERATIONAL AMPLIFIER & COMPARATORS INTERFACE CURRENT DRIVER LOGIC



#### RFID PLUG & PLAY READER MODULES TRANSPONDERS

- ISO Card
- World Tag
- Glass Tag
- Disc
- ID Band
- Label
- Keyfob
- PVC

#### ANTENNA UHF, 125KHZ, 13.56MHZ, NFC, BLE PC-CONNECTED READERS



#### 32-BIT MCUs

- G1 (Cortex M0+, Basic)
- G2 (Cortex M0+, up to 48MHz)
- G3 (Cortex M0+, 48MHz, USB option)
- G5 (Cortex M3, up to 75MHz)
- M (32-bit High Performance)
- L1 (Cortex M0+, Low Power)
- L2 (Cortex M0+, Low Power)

#### 8-BIT MCUs

- 8-bit G1 (Mainstream)
- Touch Solution
- Low Power Series (L Series)
- LCD Series (R Series)
- MC Series
- L1 (M8051, Low Power)

# FLEX ELECTRONICS



## FLEXIBLE FLAT CABLE (FFC CABLE)

- Simple ffc cable
- 0.5~2,54mm pitch LVDS FFC cable
- The impedance control FFC cable
- the FFC cable of clock spring

## FLEXIBLE JUMPER CABLE

- Flexible jumper cable (polyester, nomex, kapton,teflon)
- Flexible jumper cable with terminal

## SMD JUMPER CABLE

# OBO Pro.2 INC.



## PIEZO BUZZER & RECEIVER

- Ringer/receiver
- External drive type
- Drive circuit built-in/self drive

## MAGNETIC TRANSDUCER

- SMD Magnetic Transducer
- Built-In Oscillating Circuit Type
- External Drive type

## MYLAR SPEAKER

- Ø 10-57 mm
- Vibrant speaker

## PIEZOELECTRIC CERAMIC ELEMENT CONDENSER MICROPHONE

# ELECTRON



## CERMET TRIMMERS

- 3296 (Trimmer 25 turns)
- 3006 (Trimmer 22 turns)
- 3386 (Trimmer 1 turn)
- 3362 (Trimmer 1 turn)
- 3323 (Trimmer 1 turn)

## WIREROUND POTENTIOMETERS

- 3590S (10 turns)
- W11609 (100 Ohms - 2 megohms)

# ONPOW



## METAL/PLASTIC PUSH BUTTON SWITCH

- Metal touch switch
- Metal Buzzer
- Piezoelectric switch
- Emergency switch
- Digital code rotary switch
- Contactless switch
- Anti vandal switch

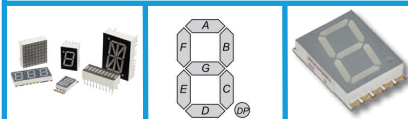
## DIP SWITCH

- Slide/right-angle/piano/straight/SMD types

## ACCESSORIES

- Metal/plastic push button box

# beLight



## LED DISPLAYS

- SMD & DIP Packages
- Orange, Red, Green, Blue, White
- Low Current Versions (1mA)
- 7 segment LED display
- Alphanumeric LED display
- Bar graph LED display
- Character Height From 0.28" to 5"
- Single, Double, Triple, Quadruple digit
- Matrix Led Display
- Custom Displays

# HSA



## POWER SUPPLY

- LED Constant Current/Voltage (AC Direct Module 220V with power from 4 to 240W)
- LP Series (17-240W)
- LD Series (7-26W)
- LA Series (4.2-12W)
- B Series (14-18W)
- LF Series (53-75W)
- LT Series (16-26W)
- PCBA Series (75-150W)
- AZB Series
- HPL Series
- Compatibility with Dali, Casambi and Zigbee systems

# SanRex



## POWER MODULE

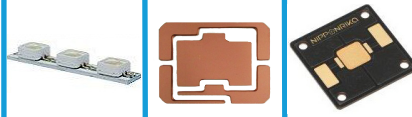
- Diode (Soft/Fast Recovery, Shottky Barrier and Rectifier)
- 3-Phase (Diode, Diode+Thyristor)
- Thyristor (High current, Ak, PK/PD, SCA/SCE, PWB Series)
- Mosfet Sic
- IGBT

## DISCRETE

- Triac (Through Hole, SMD, Tab Terminal)
- Thyristor (Through Hole, SMD, Tab Terminal)
- FRD, Diode (Tab Terminal)

# NIPPONRIKQ

Designing Energy Drive



## PRINTED WIRING BOARD

- Main circuit, drive circuit, power circuit and control circuit can be printed on one composite metal base.
- NRA-ES NRA-8 NRA-E NRA-H6 NRA-H10 NRA-H10HV
- Contains both an aluminium layer and high thermal conductive dielectric layer.
- NRA Alluminum base
- NRF Steel base
- NRC Copper base
- RoHS compliant
- UL compliant



## ALUMINUM ELECTROLYTIC

- E-Cap
- Radial lead type (general)
- Radial deal type (low ESR)
- Snap-in lug terminal
- Screw terminal
- High Ripple Current
- Long life 160-450 volt 1000 to 68000 uF 85°C
- 5000 Hrs

## ALUMINUM POLYMER

- Polymer radial lead type
- Polymer SMD type

# MULTI DIMENSION

Sensing the Future



## ENSOR ICs

- TMR/AMR Magnetic Switch Sensors
- TMR/AMR Angle sensors
- TMR/AMR Linear Magnetic Field Sensors
- TMR/AMR Geartooth Sensors/ Magnetic Scale Sensors

## SENSOR MODULES

- TMR Magnetic Image Sensors
- TMR Current Sensors
- TMR Magnetic Rotary Encoders
- AGV Magnetic Guide Sensors
- TMR Low noise Linear Sensors
- USB Magnetometers

# ShinDengen

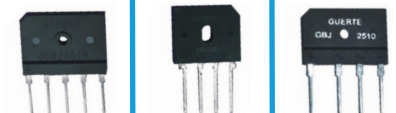
New power. Your power.



## SEMICONDUCTORS

- General Rectifying diodes
- Bridge diodes
- Schottky Barrier Diodes
- Fast recovery diodes
- Thyristors
- Triacs
- Power Mosfets
- Power modules
- Driver ICs
- Ideal Diode ICs V-diode
- IC for LED Lighting

# GUERTE



## RECTIFIER SERIES

- Single-arm Rectifier Module
- Single-phase Rectifier Module
- 3-Phase Rectifier Module
- Full-wave thyristor diode module
- Press-type Rectifier Module

## FAST RECOVERY SERIES

- Fast Recovery Module
- Schottky Module

## THYRISTOR SERIES

- Single-arm full-controlled Module
- Single-arm half-controlled Module
- 3-Phase rectifier + Thyristor Module



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