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YAMAHA CORPORATION
OF AMERICA

PRODUCT LINE

INTEGRATED CIRCUITS

- Gate Array (monolithic ICs)
- Standard Cells (monolithic ICs)
- Embedded Arrays (monolithic ICs)
- Microcontrollers (monolithic ICs)
- Audio-application CMOS Digital Signal Processors (monolithic ICs)
- Memories (monolithic ICs)
- Speech Synthesis Applications (monolithic ICs)
- Communications-Use Products (monolithic ICs)
- Optical Communication Applications (monolithic ICs)
- CD-ROM/CD-R/RW/DVD/MD Applications (monolithic ICs)
- Modems (monolithic ICs)
- Facsimile Machine Applications (monolithic ICs)
- FDD/HDD Application (monolithic ICs)
- Printer Drivers (monolithic ICs)
- LCD Controllers, Drivers (monolithic ICs)
- VFD Drivers (monolithic ICs)
- Sensor Applications (monolithic ICs)
- Timer and Controller Applications (monolithic ICs)
- Watches, Clocks (monolithic ICs)
- On-screen Display, Others (monolithic ICs)
- Operational Amplifiers (monolithic ICs)
- Comparators (monolithic ICs)

THYRISTORS

- SCRs – Metal / Plastic Packages
- TRIACs – Metal / Plastic Packages
- DIACs – DO-35 Case

LCDs

- Low-Temperature Polysilicon TFT LCD Modules

MILITARY INTEGRATED CIRCUITS AND DISCRETE PRODUCTS

- Analog/Telecom & Special Function
- Logic Products
- Memories

OPTOELECTRONIC DEVICES

- LED Lamps
- LED Numeric Displays
- Infrared LEDs
- IR Remote Controller Photosensor

- Driver Arrays (monolithic ICs)
- System Drivers (monolithic ICs)
- Stepping Motor Drivers (monolithic ICs)
- Sensorless Motor Drivers (monolithic ICs)
- Brushless Motor Drivers (monolithic ICs)
- Brush Motor Drivers (monolithic ICs)
- Thick-film Motor Drivers (thick-film hybrid ICs)
- Voltage Regulators (monolithic ICs)
- Digital Television (monolithic ICs)
- Television, VCR and Video Camera Applications (monolithic ICs)
- CRT Displays (thick-film hybrid ICs)
- Projectors (thick-film hybrid ICs)
- Plasma Display Panel Applications (thick-film hybrid ICs)
- FM/AM HF Amplifiers (monolithic ICs)
- Electronic Tuning Systems (monolithic ICs)
- FM Multiplex Stereo Demodulators (monolithic ICs)
- AF Preamplifiers (monolithic ICs)
- AF Power Amplifiers (monolithic ICs)
- Single-channel AF Power Amplifiers (thick-film hybrid ICs)
- 2-channel AF Power Amplifiers (thick-film hybrid ICs)

- SBS (Silicon Bilateral Switch) – TO-92 Case
- PUTs – TO-92, TO92-18R Case
- UJTs – TO-92 Case

- 8-, 16-, and 32-Bit Microprocessors & Microcontrollers
- Data Communications
- Digital Signal Processing (DSP)
- Reduced Instruction Set Computer (RISC)
- Application Specific Integrated Circuit (ASIC)
- MIL-Qualified Products
- MIL-Processed Products

Modules

- Ultrasmall-sized photointerrupters
- Photoreflector
- Laser
- Optoisolators

- 3-channel AF Power Amplifiers (thick-film hybrid ICs)
- 5-channel AF Power Amplifiers (thick-film hybrid ICs)
- 6-channel AF Power Amplifiers (thick-film hybrid ICs)
- AF Voltage Amplifiers (thick-film hybrid ICs)
- Digital Audio Applications (monolithic ICs)
- CD-G Applications (monolithic ICs)
- Video CD and DVD Applications (monolithic ICs)
- Accessories for Audio Appliances (monolithic ICs)
- Level Meters (monolithic ICs)
- Semicustom Application Specific Integrated Circuits
- Microcomputer Components
- MOS Memories
- TTL, ECL, CMOS and Special Logic Circuits
- Amplifiers and Comparators
- Power Supply Circuits
- Power/Motor Control Circuits
- Communication Circuits
- Consumer Electronic Circuits
- Automotive Electronic Circuits
- Timing Circuits (Singles & Duals)
- Linear Four-Quadrant Multipliers
- Smoke Detectors (CMOS)
- Standard Bipolar Logic (surface mount)
- Bipolar Analog (surface mount)
- MOS Integrated Circuits (surface mount)

- UJTs – TO-18 Case
- UJTs – TO-5 Case

- MOSFETs (TMOS)
- Small-Signal Transistors
- MIL-Processed Discrete Semiconductors
- Selector Guide Power Transistors
- Rectifiers
- Multiple Transistors
- Thyristors
- Surface Mount Devices
- Discrete Military Operation Chips

- POWER OPTO Isolators
- Emitters/Detectors
- Optointerrupters
- Fiber Optic Components
- Optoelectronic Chips

PRODUCT LINE

DIODES & RECTIFIERS

- High-Speed Switching
- Plastic Package - Standard Recovery
- Glass Passivated, Plastic Package - Standard Recovery
- Leadless Surface Mount - Ultra Fast Recovery
- Leadless Surface Mount Glass Passivated - Standard Recovery
- Glass Passivated Glass Package - Standard Recovery
- Plastic Package – Fast Recovery
- Glass Passivated Plastic Package – Fast Recovery
- Glass Passivated Glass Package – Fast Recovery
- Plastic Package – Ultra Fast Recovery
- Glass Passivated Plastic Package – Ultra Fast Recovery
- Plastic Package – Super Fast Recovery
- Glass Passivated Plastic Package – Super Fast Recovery
- Glass Passivated Glass Package – Super Fast Recovery
- Plastic Package – High Voltage High Current Normal and Fast Recoveries
- Stud Package Standard Recovery - Power Rectifiers
- Plastic Button Package – Automotive Rectifier Diodes
- Leadless Surface Mount – Standard Recovery
- Leadless Surface Mount – Fast Recovery
- Leadless Surface Mount – Ultra Fast Recovery
- Leadless Surface Mount Glass Passivated – Standard Recovery
- Flat Surface Mount Glass Passivated – Standard Recovery
- Flat Surface Mount Glass Passivated – Fast Recovery
- Flat Surface Mount Glass Passivated – Super Fast Recovery
- Axial Lead Glass Package – Schottky Rectifier Diodes
- Axial Lead Plastic Package – Schottky Rectifier Diodes
- Plastic Package – Schottky Rectifier Diodes
- Metal Package – Schottky Rectifier Diodes
- Module Single Center – Schottky Rectifier Diodes
- Module Single Side – Schottky Rectifier Diodes
- Module Dual – Schottky Rectifier Diodes
- Leadless Surface Mount – Schottky Rectifier Diodes
- Flat Surface Mount – Schottky Rectifier Diodes
- Standard Recovery Plastic Package – Bridge Rectifiers
- Standard Recovery Glass Passivated Plastic Package – Bridge Rectifiers
- Fast Recovery Plastic Package – Bridge Rectifiers
- Ultra Fast Recovery Glass Passivated Plastic Package – Bridge Rectifiers
- Surface Mount Dual In Line – Bridge Rectifiers
- Standard Recovery – High Voltage Rectifier Assemblies
- Fast Recovery - High Voltage Rectifier Assemblies
- Transient Voltage Suppressors
- Low Capacitance – Transient Voltage Suppressors
- 5.0 kW Unipolar – Transient Voltage Suppressors
- 5.0 kW Bipolar – Transient Voltage Suppressors
- 15.0 kW Unipolar – Transient Voltage Suppressors
- 400 W MELF Surface Mount - Transient Voltage Suppressors
- 600 W Surface Mount - Transient Voltage Suppressors
- 1500 W Surface Mount - Transient Voltage Suppressors
- 3000 W Surface Mount - Transient Voltage Suppressors
- Forward Regulator (Multi-Pellet) Diodes
- DO-35 JEDEC Types - Current Regulator Diodes
- DO-35 High Current - Current Regulator Diodes
- DO-35 Economy Series - Current Regulator Diodes
- DO-35 Switching Diodes – Silicon Diodes
- DO-35 High Voltage Switching Diodes – Silicon Diodes
- DO-35 Low Leakage Diodes – Silicon Diodes
- DO-35 Schottky Diodes – Silicon Diodes
- TO-18 Low Leakage
- DO-1 Germanium Diodes
- DO-7 Germanium Diodes
- DO-4 Zener Diodes
- Current Limiting Diodes
- High Current Limiting Diodes
- High Current Surface Mount Current Limiting Diodes
- Surface Mount Current Limiting Diodes
- MELF Surface Mount - Current Regulator Diodes
- TO-18 - Current Regulator Diodes
- TO-92 - Current Regulator Diodes
- TO-5 Very High Current - Current Regulator Diodes
- TO-254 Very High Current - Current Regulator Diodes
- Surface Mount Very High Current - Current Regulator Diodes
- Glass Package General Purpose – Zener Diodes
- Glass Package Low Current – Zener Diodes
- General Purpose – Zener Diodes
- Low Current Low Noise – Zener Diodes
- Glass Package General Purpose – Zener Diodes
- Glass Package Low Noise Low Regulation – Zener Diodes
- Glass Package Low Current – Zener Diodes
- Glass Package Low Noise Low Leakage – Zener Diodes
- 5 W Plastic Package – Zener Diodes
- 5 W DO-201AW Plastic Package – Zener Diodes
- 50 W DO-5 Package – Zener Diodes
- Surface Mount – Zener Diodes
- Surface Mount MELF Package – Zener Diodes
- Surface Mount Flat Plastic Package – Zener Diodes
- Temperature Compensated Zener Reference Diodes
- Temperature Compensated Zener Reference Diodes – High Voltage
- Varactor Tuning Diodes
- Hyper-Abrupt Tuning Diodes
- Glass Package – Switching Diodes
- Flat Surface Mount Package – Switching Diodes
- Surface Mount MELF Package – Switching Diodes
- Glass Package – General Purpose Diodes

(continued)

PRODUCT LINE

DIODES & RECTIFIERS (continued)

- Germanium Glass Diodes
- Diode Arrays
- Diode Array Networks
- Pin Switching Diodes
- General-Purpose Tuning Diodes
- High-Capacitance Tuning Diodes
- FM Radio and TV Hyper-Abrupt Tuning Diodes
- Am Tuning Diodes
- Hot-Carrier (Schottky) Diodes
- High-Speed Rectifiers (Fast-Recovery)
- Ultrahigh-Speed Rectifiers (Low Loss)
- Horizontal Deflection-Use High-Speed Damping
- Bridge Rectifier Stacks
- Controlled Avalanche Bridge Rectifiers
- Schottky Barrier for Rectification Applications
- Schottky Barrier for Detection Applications
- Mobile Communications GaAs Devices
- BS/CS Converter MICs
- Data Communications VCO Modules
- Package Type GaAs Schottky Barrier Devices
- GaAs Varactor
- Tuning Diodes – Abrupt Junction
- Tuning Diodes – Hyper-Abrupt Junction
- Multiple Switching Diodes
- Voltage Regulator Diodes
- Axial Leaded for Through-hole Designs
- Transient Voltage Suppressors
- Application Specific Rectifiers
- Schottky Rectifiers
- Ultrafast Recovery Rectifiers
- Fast Recovery Rectifiers
- General-Purpose Rectifiers
- Silicon Controlled Rectifiers (SCRs)
- General Purpose TRIACs
- Optically Isolated TRIACs
- Thyristor Triggers
- SIDACs
- Silicon Bidirectional Switches (SBS)
- Stabistors – Forward Reference Diodes

TRANSISTORS

- High-Frequency
- Ultrahigh-Frequency
- Si Ultrahigh-Frequency MMIC
- GaAsFET
- High-Frequency MOSFETs
- Low-Noise
- High-Voltage
- Low-Saturation Voltage
- Darlington
- Transistors with Built-in Resistors
- High-Gain High-V EBO Muting
- General-Application
- Switching
- Power MOSFETs (P channel)
- Power MOSFETs (N channel)
- Power MOSFETs (N channel + P channel)
- Junction FETs
- Excellent Power Devices (ExPD)
- TV/CRT Display Application (I)
- TV/CRT Display Application (II)
- Ultrahigh-Resolution Display Horizontal Deflection Output
- Ultrahigh-Resolution Display Video Output (FBET)
- Dynamic Focus Application
- High-Performance Composite Device Series
- PicoMOS Series
- RF Power Transistor and Modules
- High Frequency, Low Voltage Amplifier Transistors/Modules
- High Frequency, High Voltage Power Amplifier Transistors
- Microwave Power Transistors
- Avionics Pulsed Power Microwave
- Small-Signal RF Transistors
- UHF and Microwave Oscillators
- High-Speed Switches
- Linear Hybrid Amplifier Modules
- CATV, MATV, and Class A Linear
- Small-Signal Amplifier
- High Reliability RF
- RF Field-Effect
- Bipolar Transistors
- Field-Effect Transistors
- RF AMPLIFIERS – JFETs
- Switches and Choppers – JFETs
- Low Frequency / Low Noise Amplifiers – JFETs
- MOSFETs
- Surface Mount FETs
- Smallblock Products
- Programmable Unijunction Transistors (PUT)
- RF Discrete Transistors
- RF Power MOSFETs
- RF Power Bipolar Transistors
- HF Transistors
- VHF Transistors
- UHF Transistors
- 900 MHz Transistors
- Microwave Transistors
- Linear Transistors
- RF Small Signal Bipolar Transistors
- RF Amplifiers
- Land Mobil/Portable (High Power)
- TV Transmitter (High Power)
- CATV Distribution (Low Power)
- General Purpose Wideband
- CRT Drivers
- TO-9 Metal Case – Small Signal Transistors
- TO-18 Metal Case – Small Signal Transistors
- TO-39 Metal Case – Small Signal Transistors
- TO-46 Metal Case – Small Signal Transistors
- TO-72 Metal Case – Small Signal Transistors
- TO-71 Dual Metal Case – Small Signal Transistors
- TO-78 Dual Metal Case – Small Signal Transistors
- TO-92 Plastic Case – Small Signal Transistors
- TO-92HS Plastic Case with Heat Sink – Small Signal Transistors
- TO-116 Quad Plastic Case – Small Signal Transistors
- TO-39 RF Transistors – Small Signal Transistors
- TO-72 RF Transistors – Small Signal Transistors
- TO-3 Metal Case – Power Transistors
- TO-66 Metal Case – Power Transistors
- TO-126 Plastic Case – Power Transistors
- TO-202 Plastic Case – Power Transistors
- TO-218 Plastic Case – Power Transistors
- TO-220 Plastic Case – Power Transistors
- TO-237 Plastic Case – Power Transistors