

# Portable Media Player

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# Portable Media Player

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**VISHAY components used for a portable media player may include:**

- Power Management ICs
- LDOs
- Power MOSFETS
- Analog Switches
- Diodes
- Visible LEDs
- ESD Protection Devices
- Capacitors
- Inductors
- Beads
- Resistors
- Thermistors
- Ambient Light Sensors

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## **Application Overview**

A portable media player, or PMP, is a device that is capable of storing and playing digital media, such as audio, images, and video. Some players include the ability to record audio, with a built-in microphone, line-out cable, or FM tuner. PMPs come with either flash or hard disk storage, with several players supporting memory card slots, including slots for CompactFlash (CF), Secure Digital (SD), and memory sticks. In addition to USB connectivity, many players also offer Bluetooth and/or Wi-Fi. Most PMP circuits include some or all of the system blocks shown above.

## Portable Media Player : Audio, Headphones

### Analog Switches

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">DG2032</a>	NEW	High-Bandwidth, Low-Voltage, Dual SPDT Analog Switch	Single Supply 1.8 - 5.5V Low rDS(on): 2.4 Ohms	SMD QFN-12 3x3	
<a href="#">DG2034</a>		Single 4:1 Low Ron Multiplexers	Low Volt Oper. 1.8 - 5.5V Low rDS(on): 4 $\Omega$ Fast Switch - 25-ns tON	SMD QFN-12 3x3 MSOP-10	
<a href="#">DG4599</a>		Single-Pole/Double-Throw Analog Switches	2.25- 5.5-V Single Supply 2 $\Omega$ Typ. RON Flatness Fast Switching	SMD SC70-6	

### Chip Resistors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">CRCW....e3</a>		Thick Film Rectangular Chip Resistors Lead (Pb)-Free	1 $\Omega$ to 1 M $\Omega$	SMD 0201-2512	

### Tantalum Capacitors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">298D</a>	NEW	Solid Tantalum Chip Capacitors MICROTAN® Leadframeless Molded	0.68 $\mu$ F to 220 $\mu$ F	SMD 0402-0805	
<a href="#">572D</a>		Solid Tantalum Chip Capacitors TANTAMOUNT® Conformal-Coated	2.2 $\mu$ F to 220 $\mu$ F Low Profile, Max CV	SMD single-side term P,Q,S,A,B,T case	

### Zener Diodes

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">BZX384 Series</a>		Small-Signal Zener Diodes	VZ = 2.4 to 75 V	SMD SOD323	

## Portable Media Player : Audio, Microphone

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### Zener Diodes

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">BZX384 Series</a>		Small-Signal Zener Diodes	VZ = 2.4 to 75 V	SMD SOD323	

## Portable Media Player : Audio, Speaker

### Analog Switches

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">DG2034</a>		Single 4:1 Low Ron Multiplexers	Low-Volt Oper. 1.8 - 5.5V Low rDS(on): 4 $\Omega$ Fast Switch - 25-ns tON	SMD QFN-12 3x3 MSOP-10	
<a href="#">DG2522</a>	NEW	SP3T Analog Switch - 3:1 Multiplexer Fault Protection,		SMD MiniQFN-8	

### Chip Resistors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">CRCW....e3</a>		Thick Film Rectangular Chip Resistors Lead (Pb)-Free	1 $\Omega$ to 1 M $\Omega$	SMD 0201-2512	

### Tantalum Capacitors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">298D</a>	NEW	Solid Tantalum Chip Capacitors MICROTAN® Leadframeless Molded	0.68 $\mu$ F to 220 $\mu$ F	SMD 0402-0805	
<a href="#">572D</a>		Solid Tantalum Chip Capacitors TANTAMOUNT® Conformal-Coated	2.2 $\mu$ F to 220 $\mu$ F Low Profile, Max CV	SMD single-side term P,Q,S,A,B,T case	

### Zener Diodes

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">BZX384 Series</a>		Small-Signal Zener Diodes	VZ = 2.4 to 75 V	SMD SOD323	

## Portable Media Player : Battery, Battery Management

### Chip Resistors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">CRCW....e3</a>		Thick Film, Rectangular Chip Resistors Lead (Pb)-Free	1 $\Omega$ to 1 M $\Omega$	SMD 0201-2512	
<a href="#">CRCW....e3</a>		Thin Film, Rectangular Chip Resistors 1 $\Omega$ to 1 M $\Omega$ Lead (Pb)-Free	0201-2512	SMD 0201-2512	

### Current Sense Resistors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">WSL</a>		Power Metal Strip, for current sensing; low resistance values; tight tolerances; low TCR;	R0005 to R500, 1% TCR $\leq \pm 75$ ppm P70 = 0.1W - 2W	SMD 0603-2816	

### Power MOSFETs

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">Si1499DH</a>	NEW	P-Channel 1.2-V (G-S) Rated MOSFET	VDS = -8 V, ID = -1.6 A rDS(on) = 78 milliohms	SMD SOD323	
<a href="#">Si8424DB</a>	NEW	N-Channel 1.2V (G-S) Rated MOSFET	VDS = 8 V, ID = 12.2 A rDS(on) = 31 milliohms	SMD MICRO FOOT 1.6 x 1.6	
<a href="#">Si8429DB</a>	NEW	P-Channel 1.2V (G-S) Rated MOSFET	VDS = -8 V, ID = -11.7 A rDS(on) = 35 milliohms	SMD MICRO FOOT 1.6 x 1.6	
<a href="#">Si8441DB</a>	NEW	P-Channel 1.2-V (G-S) Rated MOSFET	VDS = -20 V, ID = -10.5 A rDS(on) = 80 milliohms	SMD MICRO FOOT 1.5 x 1	
<a href="#">Si8445DB</a>	NEW	P-Channel 1.2-V (G-S) Rated MOSFET	VDS = -20 V, ID = -9.8 A rDS(on) = 84 milliohms	SMD MICRO FOOT 1.2 x 1	
<a href="#">SiA414DJ</a>	NEW	N-Channel 1.2V (G-S) Rated MOSFET	VDS = -8 V, ID = -12 A rDS(on) = 11 milliohms	SMD PowerPAK SC-70	
<a href="#">SiA417DJ</a>	NEW	P-Channel 1.2V (G-S) Rated MOSFET	VDS = -8 V, ID = -12 A rDS(on) = 23 milliohms	SMD PowerPAK SC-70	
<a href="#">SiA419DJ</a>	NEW	P-Channel 1.2V (G-S) Rated MOSFET	VDS = -20 V, ID = 12 A rDS(on) = 30 milliohms	SMD PowerPAK SC-70	
<a href="#">SiB414DK</a>	NEW	N-Channel 1.2V (G-S) Rated MOSFET	VDS = 8 V, ID = 9 A rDS(on) = 26 milliohms	SMD PowerPAK SC-75	
<a href="#">SiB417DK</a>	NEW	P-Channel 1.2V (G-S) Rated MOSFET	VDS = -8 V, ID = -9 A rDS(on) = 52 milliohms	SMD PowerPAK SC-75	
<a href="#">SiB417EDK</a>	NEW	P-Channel 1.2V (G-S) Rated MOSFET	VDS = -8 V, ID = -9 A rDS(on) = 58 milliohms	SMD PowerPAK SC-75	

### Schottky Diodes

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">MSS1P2L</a>	NEW	20-V, 1A SMD Schottky Barrier Rectifiers	VR = 20 V, IF = 1 A	SMD microSMP	
<a href="#">MSS1P3L</a>	NEW	30-V, 1A SMD Schottky Barrier Rectifiers	VR = 30 V, IF = 1 A	SMD microSMP	

### Switching Diodes

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">1N4148WS</a>		Small-Signal Fast-Switching Diode	VR = 75 V	SMD SOD323	
<a href="#">BAS16WS-V</a>		Small-Signal Fast-Switching Diode	VR = 75 V	SMD	

Product Name	Status	Description	Features	Package	Q-Level
				SOD323	
<a href="#">BAV19WS</a>		Small-Signal Fast-Switching Diode	VR = 100 V VR = 150 V VR = 200 V	SMD SOD323	

#### Zener Diodes

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">BZX384 Series</a>		Small-Signal Zener Diodes	VZ = 2.4 to 75 V	SMD SOD323	

## Portable Media Player : Communication, Bluetooth

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### Attenuators

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">CZA04S and CZA06S</a>		Surface-Mount Chip Resistor Attenuator	50 to 600 Ohms	SMD 0402-0603	

### Inductors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">IFCB-0402</a>		Thin Film Ceramic Chip Inductor	1 nH to 22 nH	SMD	

### Multilayer Ferrite Beads

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">ILBB-0402</a>		Multilayer Ferrite Beads	20 to 600 Ohms @ 100 MHz	SMD 0402	
<a href="#">ILBB-0603</a>		Multilayer Ferrite Beads	10 to 2000 Ohms @ 100 MHz	SMD 0603 0805-1206	



## Portable Media Player : Communication, FM Receiver

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### Zener Diodes

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">BZX384 Series</a>		Small-Signal Zener Diodes	VZ = 2.4 to 75 V	SMD SOD323	

## Portable Media Player : Peripherals, Docking Connector

### ESD Protection

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">VESD05A1B-HD1</a>		ESD Protection Diode in LLP1006-2L	CD = 12 pF	SMD LLP1006-2L	

### Power MOSFETs

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">Si2309CDS</a>	NEW	P-Channel 60-V (D-S) MOSFET	VDS = -60 V, ID = -1.6 A rDS(on) = .345Ω@-10V	SMD SOT-23	
<a href="#">Si3457CDV</a>		P-Channel 30-V (D-S) MOSFET	VDS = -30 V, ID = -5.1 A rDS(on) = 74 milliohms	SMD TSOP-6	
<a href="#">Si3493BDV</a>		P-Channel 20-V (D-S),MOSFET 1.8V(G-S); PWM Optimized	VDS = -20 V, ID = -8 A rDS(on)=27.5mΩ@-4.5V	SMD TSOP-6	
<a href="#">SiA421DJ</a>	NEW	P-Channel 30-V (D-S) MOSFET	VDS = -30 V, ID = -12 A rDS(on) = 35 milliohms	SMD PowerPAK SC-70-6L	

### Schottky Diodes

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">MSS1P3L</a>	NEW	30-V, 1A SMD Schottky Barrier Rectifiers	VR = 30V, IF = 1 A	SMD microSMP	
<a href="#">SS12 through SS16</a>		Low-VF, High-Current-Density SMD	VR = 20 V to 60 V IF = 1 A	SMD SMA	
<a href="#">SS1P3L</a>		Low-VF, High-Current-Density SMD	VR = 30V, IF = 1 A	SMD SMP	

## Portable Media Player : Peripherals, Memory

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### Chip Resistors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">CRCW.... e3</a>		Thick Film Rectangular Chip Resistors Lead (Pb)-Free	1 $\Omega$ to 1 M $\Omega$	SMD 0201-2512	

### ESD Protection

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">VBUS051BD-HD1</a>		Single-Line ESD Protection Diode; Low Capacitance,	CD = 0.9 pF 0.4-mm profile	SMD LLP1006-2L	

### Resistor Arrays

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">CRA04P</a>		Thick Film Resistor Array	1 $\Omega$ to 1 M $\Omega$	SMD 2.0x1.0 mm	

## Portable Media Player : Peripherals, USB

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### Analog Switches

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">DG2720</a>		Ultra-Portable USB 2.0 for 2-Port Switching	2.7-V to 4.3-V Supply 1.3-V Control Logic 620-MHz bandwidth	SMD miniQFN-10	

### ESD Protection

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">VBUS051BD-HD1</a>	NEW	Single-Line ESD Protection Diode Low Capacitance,	CD = 0.9 pF 0.4-mm profile	SMD LLP1006-2L	
<a href="#">VBUS052CD-FAH</a>	NEW	2-Line BUS Port ESD Protection - Flow-Through Design	CD = 0.8 pF 0.6-mm profile	SMD LLP1713-7L	

## Portable Media Player : Power Management, Charge Control

### Battery Charger ICs

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">Si9731</a>		µP Controlled Li-ion Battery Charger Pulse Charges 1 to 3 Cells Integrated MOSFETs	PWM Controlled TSSOP-16	SMD TSSOP-16	

### Chip Resistors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">CRCW.... e3</a>		Thick Film Rectangular Chip Resistors Lead (Pb)-Free	1 Ω to 1 MΩ	SMD 0201-2512	
<a href="#">MCS0402</a> <a href="#">MCT0603</a> <a href="#">MCU0805</a>		Precision Chip Resistors, Thin Film	39 - 500 Kohms Tol. = 0.1% - 0.5%	SMD 0402, 0603	

### Current Sense Resistors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">WSL</a>		Power Metal Strip, for current sensing; low resistance values; tight tolerances; low TCR;	R0005 to R500, 1% TCR <= ± 75ppm P70 = 0.1W - 2W	SMD 0603-2816	

### Fuses

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">MFU</a>		Thin Film Flat Chip Fuses	500 mA to 6.3 A	SMD 0402-1206	

### Power MOSFETs

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">Si1067X</a>	NEW	P-Channel 1.8-V (G-S) Rated MOSFET VDS = -20 V, ID = -1.6 A rDS(on) = 150 milliohms	VDS = -20 V, ID = -1.6 A rDS(on) = 150 milliohms	SMD MICRO FOOT 1.6 x 1.6	
<a href="#">Si1304BDL</a>	NEW	N-Channel 1.2-V (G-S) Rated MOSFET VDS = 30 V, ID = 0.9 A rDS(on) = 270 milliohms	VDS = 30 V, ID = 0.9 A rDS(on) = 270 milliohms	SMD PowerPAK SC-75	
<a href="#">Si8401DB</a>		P-Channel 2.5-V (G-S) Rated MOSFET VDS = -20 V, ID = -4.9 A rDS(on) = 65 milliohms	VDS = -20 V, ID = -4.9 A rDS(on) = 65 milliohms	SMD MICRO FOOT 1.5 x 1	
<a href="#">Si8407DB</a>		P-Channel 1.8-V (G-S) Rated MOSFET VDS = -20 V, ID = 8.2 A rDS(on) = 27 milliohms	VDS = -20 V, ID = 8.2 A rDS(on) = 27 milliohms	SMD MICRO FOOT 1.6 x 1.6	
<a href="#">Si8499DB</a>		P-Channel 20V (D-S) MOSFET	VDS = -20 V, ID = -16 A rDS(on) = 0.032 ohms	SMD MICRO FOOT 1.2 x 1	
<a href="#">SiA408DJ</a>	NEW	N-Channel 2.5-V (G-S) Rated MOSFET VDS = 30 V, ID = 4.5 A rDS(on) = 36 milliohms	VDS = 30 V, ID = 4.5 A rDS(on) = 36 milliohms	SMD PowerPAK SC-75	
<a href="#">SiA429DJT</a>	NEW	P-Channel 20V (D-S) MOSFET	VDS = -20 V, ID = -12 A rDS(on) = 0.0205 ohms	SMD Thin PPAK SC-70-6L	
<a href="#">SiA431DJ</a>	NEW	P-Channel 20-V (D-S) MOSFET	VDS = -20 V, ID = -12 A rDS(on) = 0.025 ohms	SMD PPAK SC70-6L	
<a href="#">SiB433EDK</a>	NEW	P-Channel 20-V (D-S) MOSFET	VDS = -20 V, ID = -9 A rDS(on) = 0.058 ohms	SMD PowerPAK SC-75-6L	
<a href="#">SiB455EDK</a>	NEW	P-Channel 12-V (D-S) MOSFET	VDS = -20 V, ID = 9 A rDS(on) = 0.027 ohms	SMD PowerPAK SC-75-6L	

### Schottky Diodes

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">MSS1P3L</a>	NEW	30-V, 1A SMD Schottky Barrier Rectifiers	VR = 30 V, IF = 1 A	SMD	

Product Name	Status	Description	Features	Package	Q-Level
				microSMP	
<a href="#">MSS1P4L</a>	NEW	40-V, 1A SMD Schottky Barrier Rectifiers	VR = 40 V, IF = 1 A	SMD microSMP	

#### Thermistors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">NTHS</a>		NTC Thermistor, Surface-Mount Chip	Curve 2, 6.8 K - 12 K Tol. = 3%, 5%, 10% Alt. Curves Available	SMD 0402, 0603	

## Portable Media Player : Power Management, Switchmode Regulators

### Chip Resistors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">CRCW.... e3</a>		Thick Film Rectangular Chip Resistors Lead (Pb)-Free	1 $\Omega$ to 1 M $\Omega$	SMD 0201-2512	

### Current Sense Resistors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">WSL</a>		Power Metal Strip, for current sensing; low resistance values; tight tolerances; low TCR;	R0005 to R500, 1% TCR $\leq$ $\pm$ 75ppm P70 = 0.1W - 2W	SMD 0603-2816	

### Inductors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">IHLP-1616AB-01</a>	NEW	Low-Profile, High-Current Inductor	0.047 to 1.0 $\mu$ H 1.2-mm profile	SMD 4.0x4.0x1.2mm	
<a href="#">IHLP-1616AB-11</a>	NEW	Low-Profile, High-Current Inductor	0.047 to 2.2 $\mu$ H 1.2-mm profile	SMD 4.0x4.0x1.2mm	
<a href="#">IHLP-1616BZ-01</a>	NEW	Low-Profile, High-Current Inductor	0.10 to 2.2 $\mu$ H 2.0-mm profile	SMD 4.0x4.0x2.0mm	
<a href="#">IHLP-1616BZ-11</a>	NEW	Low-Profile, High-Current Inductor	0.10 tp 4.7 $\mu$ H 2.0-mm profile	SMD 4.0x4.0x2.0mm	

### Power MOSFETs

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">Si1067X</a>	NEW	P-Channel 1.8-V (G-S) Rated MOSFET	VDS = -20 V, ID = -1.6 A rDS(on) = 150 milliohms	SMD SC-89-6	
<a href="#">Si1304BDL</a>	NEW	N-Channel 1.2-V (G-S) Rated MOSFET	VDS = 30 V, ID = 0.9 A rDS(on) = 270 milliohms	SMD SC-70-3	
<a href="#">Si5858DU</a>		N-Channel 1.8-V (G-S) Rated MOSFET with Trench Schottky Diode	VDS = 20V, ID = 6A; If=1A rDS(on) = 39 milliohms VKA = 20V, Vf = 0.375V @1A	SMD PowerPAK ChipFET dual	
<a href="#">Si8401DB</a>		P-Channel 2.5-V (G-S) Rated MOSFET	VDS = -20 V, ID = -4.9 A rDS(on) = 65 milliohms	SMD MICRO FOOT 1.6 x 1.6	
<a href="#">Si8407DB</a>		P-Channel 1.8-V (G-S) Rated MOSFET	VDS = -20 V, ID = 8.2 A rDS(on) = 27 milliohms	SMD MICRO FOOT 2.4 x 1.6	
<a href="#">Si8451DB</a>		P-Channel 1.5-V (G-S) Rated MOSFET	VDS = -20 V, ID = -10.8 A rDS(on) = 80 milliohms	SMD MICRO FOOT 1.5 x 1	
<a href="#">SiA408DJ</a>	NEW	N-Channel 2.5-V (G-S) Rated MOSFET	VDS = 30 V, ID = 4.5 A rDS(on) = 36 milliohms	SMD PowerPAK SC-70-6L	
<a href="#">SiA411DJ</a>	NEW	P-Channel 1.8-V (G-S) Rated MOSFET	VDS = -20 V, ID = -12 A rDS(on) = 30 milliohms	SMD PowerPAK SC-70-6L	
<a href="#">SiA443DJ</a>	NEW	P-Channel 1.8-V (G-S) Rated MOSFET	VDS = -20 V, ID = -12 A rDS(on) = 45 milliohms	SMD PowerPAK SC-70-6L	
<a href="#">SiA810DJ</a>	NEW	N-Channel 1.8-V (G-S) Rated MOSFET with Trench Schottky Diode	VDS = 20V, ID=4.5A; If=2A rDS(on) = 53 milliohms VKA = 20V, Vf = 0.45V @1A	SMD PowerPAK SC-70-6L dual	
<a href="#">SiB411DK</a>		P-Channel 1.8-V (G-S) Rated MOSFET	VDS = -20 V, ID = 9 A rDS(on) = 66 milliohms	SMD PowerPAK SC-70-6L	

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">SiB431EDK</a>	NEW	P-Channel 1.8-V (G-S) Rated MOSFET	VDS = -20 V, ID = -9 A rDS(on) = 80 milliohms	SMD PowerPAK SC-70-6L	

#### Schottky Diodes

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">MSS1P2L</a>	NEW	20-V, 1A SMD Schottky Barrier Rectifiers	VR = 20 V IF = 1.0 A	SMD microSMP	
<a href="#">MSS1P3L</a>	NEW	30-V, 1A SMD Schottky Barrier Rectifiers	VR = 30 V IF = 1.0 A	SMD microSMP	
<a href="#">MSS1P4L</a>	NEW	40-V, 1A SMD Schottky Barrier Rectifiers VR = 40 V, IF = 1 A	VR = 40 V IF = 1.0 A	SMD microSMP	
<a href="#">MSS1P4L</a>	NEW	40-V, 1A SMD Schottky Barrier Rectifiers VR = 40 V, IF = 1 A	VR = 40 V IF = 1.0 A	SMD microSMP	
<a href="#">SS12</a>		20-V, 1A SMD Schottky Barrier Rectifiers	VR = 20 V IF = 1.0 A	SMD SMA	
<a href="#">SS13</a>		30-V, 1A SMD Schottky Barrier Rectifiers	VR = 30 V IF = 1.0 A	SMD SMA	
<a href="#">SS1P3L</a>	NEW	30-V, 1A SMD Schottky Barrier Rectifiers	VR = 30 V IF = 1.0 A	SMD SMP	
<a href="#">SS2P2L</a>	NEW	20-V, 2A SMD Schottky Barrier Rectifiers	VR = 20 V IF = 2.0 A	SMD SMP	

#### Switching Diodes

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">1N4148WS</a>		Small-Signal, Fast-Switching Diode	VR = 75 V	SMD SOD323	
<a href="#">BAS16WS-V</a>		Small-Signal, Fast-Switching Diode	VR = 75 V	SMD SOD323	
<a href="#">BAV19WS</a>		Small-Signal, Fast-Switching Diode	VR = 100 V VR = 150 V VR = 200 V	SMD SOD323	

#### Tantalum Capacitors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">298D</a>	NEW	Solid Tantalum Chip Capacitors MICROTAN® Leadframeless Molded	0.68 $\mu$ F to 220 $\mu$ F	SMD 0402-0805	

#### Zener Diodes

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">BZX384 Series</a>		Small-Signal Zener Diodes	VZ = 2.4 to 75 V	SMD SOD323	



## Portable Media Player : Sensors, Ambient Light

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### Ambient Light Sensors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">TEMT6200FX01</a>		Ambient Light Sensor in 0805 Package Adapted to human eye responsivity	Wide angle High sensitivity	SMD SMD 0805	

## Portable Media Player : User Interface, Backlight

### Boost Controllers

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">SiP12501</a>		Boost Converter for Single Double AA Cell or NiMH Battery for White LED Applications	0.65 - 3.3V Input Voltage Low Startup Voltage: .65V 600-kHz Fixed	SMD MLP33-6	

### Chip Resistors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">CRCW....e3</a>		Thick Film Rectangular Chip Resistors Lead (Pb)-Free	1Ω to 1 MΩ	SMD 0201-2512	

### Inductors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">IHLP-1616AB-01</a>	NEW	Low-Profile, High-Current Inductor	0.047 to 1.0 μH 1.2-mm profile	SMD 4.0x4.0x1.2mm	
<a href="#">IHLP-1616AB-11</a>	NEW	Low-Profile, High-Current Inductor	0.047 to 2.2 μH 1.2-mm profile	SMD 4.0x4.0x1.2mm	
<a href="#">IHLP-1616BZ-01</a>	NEW	Low-Profile, High-Current Inductor	0.10 to 2.2 μH 2.0-mm profile	SMD 4.0x4.0x2.0mm	
<a href="#">IHLP-1616BZ-11</a>	NEW	Low-Profile, High-Current Inductor	0.10 tp 4.7 μH 2.0-mm profile	SMD 4.0x4.0x2.0mm	

### Power MOSFETs

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">Si1067X</a>	NEW	VDS = -20 V, ID = -1.6 A rDS(on) = 150 milliohms	VDS = -20 V, ID = -1.6 A rDS(on) = 150 milliohms	SMD SC-89-6	
<a href="#">Si1304BDL</a>	NEW	VDS = 30 V, ID = 0.9 A rDS(on) = 270 milliohms	VDS = 30 V, ID = 0.9 A rDS(on) = 270 milliohms	SMD SC-70-3	
<a href="#">Si8401DB</a>		VDS = -20 V, ID = -4.9 A rDS(on) = 65 milliohms	VDS = -20 V, ID = -4.9 A rDS(on) = 65 milliohms	SMD MICRO FOOT 1.6 x 1.6	
<a href="#">Si8407DB</a>		VDS = -20 V, ID = 8.2 A rDS(on) = 27 milliohms	VDS = -20 V, ID = 8.2 A rDS(on) = 27 milliohms	SMD MICRO FOOT 2.4 x 1.6	
<a href="#">Si8499DB</a>		P-Channel 20V (D-S) Mosfet	VDS = -20 V, ID = -16 A rDS(on) = 0.032 ohm	SMD MICRO FOOT 1.5 x 1	
<a href="#">SiA408DJ</a>	NEW	VDS = 30 V, ID = 4.5 A rDS(on) = 36 milliohms	VDS = 30 V, ID = 4.5 A rDS(on) = 36 milliohms	SMD PowerPAK SC-75-6L	
<a href="#">SiA429DJT</a>	NEW	P-Channel 20V (D-S) Mosfet	VDS = -20 V, ID = -12 A rDS(on) = 0.0205 ohms	SMD PowerPAK SC-70-6L	
<a href="#">SiA431DJ</a>	NEW	P-Channel 20-V (D-S) Mosfet	VDS = -20 V, ID = -12 A rDS(on) = 0.025 ohms	SMD PowerPAK SC-70-6L	
<a href="#">SiB433EDK</a>	NEW	P-Channel 20-V (D-S) Mosfet	VDS = -20 V, ID = -9 A rDS(on) = 0.058 ohms	SMD PowerPAK SC-75-6L	
<a href="#">SiB455EDK</a>	NEW	P-Channel 12-V (D-S) Mosfet	VDS = -12 V, ID = 9 A rDS(on) = 0.027 ohms	SMD PowerPAK SC-75-6L	

### Schottky Diodes

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">MSS1P3L</a>	NEW	30-V, 1A SMD Schottky Barrier Rectifiers	VR = 30 V, IF = 1 A	SMD	

Product Name	Status	Description	Features	Package	Q-Level
				microSMP	

## Portable Media Player : User Interface, Buttons

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### Chip Resistors

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">CRCW.... e3</a>		Thick Film Rectangular Chip Resistors Lead (Pb)-Free	1 $\Omega$ to 1 M $\Omega$	SMD 0201-2512	

### ESD Protection

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">VBUS051BD-HD1</a>		ESD Protection Diode in LLP1006-2L	CD = 1.8 pF 0.4-mm profile	SMD LLP1006-2L	
<a href="#">VESD05A1B-HD1</a>		ESD Protection Diode in LLP1006-2L	CD = 12 pF 0.4-mm profile	SMD LLP1006-2L	

## Portable Media Player : User Interface, LEDs

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### White LEDs

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">VLMW3200</a>	NEW	White Power SMD LED	VF = 3.7V @ IF = 30 mA IV >560 mcd	SMD	
<a href="#">VLMW3201</a>		White Power SMD LED	VF = 3.7V @ IF = 30 mA IV >710 mcd	SMD	

## Portable Media Player : User Interface, Track Wheel

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### ESD Protection

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">GMF05LC-HSF</a>		5-Line ESD Protection Diode Array	CD = 50 pF 0.6-mm profile	SMD LLP75-6L	

## Portable Media Player : User Interface, Video Bus

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### EMI Filters

Product Name	Status	Description	Features	Package	Q-Level
<a href="#">VEMI45AC-HNH</a>		4-Channel EMI Filter with ESD Protection	R = 100 Ohms C = 20pF	SMD LLP1713-9L	
<a href="#">VEMI65AC-HCI</a>		6-Channel EMI Filter with ESD Protection	R = 100 Ohms C = 20pF	SMD LLP2513-13L	
<a href="#">VEMI85AC-HGK</a>		8-Channel EMI Filter with ESD Protection	R = 100 Ohms C = 20pF	SMD LLP3313-17L	