

### FEATURES

- Input voltage range 4V~22V
- Dynamic input current allocation for maximum charging rate
- 3A Maximum Charge Current
- No External MOSFETs and Blocking Diode Required
- Efficiency up to 93%
- Constant-Current/Constant-Voltage Operation with Thermal Regulation to Maximize Charge Rate without Risk of Overheating
- Optional Battery Temperature Monitoring Before and During Charge Automatic Sleep Mode for Low-Power
- Over Current Protection
- Consumption Available in ESOP8 and DFN10
- RoHS Compliant and 100% Lead (Pb)-Free

### APPLICATIONS

- Portable Media Players
- Cellular and Smart mobile phone
- PDA/DSC

- Handheld Battery-Powered Devices
- Handheld Computers
- Charging Docks and Cradles

### DESCRIPTION

The TCS6352 is a 3A Li-Ion battery charger. It utilizes a 500 KHz synchronous buck converter topology to reduce power dissipation during charging. Low power dissipation, an internal MOSFET allow a physically small charger that can be embedded in a wide range of handheld applications. The TCS6352 includes complete charge termination circuitry, automatic recharge and a  $\pm 1\%$  4.2V float voltage. Battery charge current, charge timeout and end-of-charge indication parameters are set with external components. Additional features include shorted cell detection; temperature qualified charging and overvoltage protection. The TCS6352 is available in a ESOP8 and DFN10 package

### PACKAGE



ESOP8 AND DFN10

### ORDING INFORMATION

Part Number	Package Type	Package Qty	Op Temp(°C)
TCS6352_ EH	ESOP8	4000	-40~85
TCS6352_ DJ	DFN10	5000	-40~85