IHSD06R040L1

650 V, 40 mΩ, Silicon Carbide, Single switch

V_{DSS}	**650 V**
$R_{DS(on)}$	**40 mΩ**



TOLL

Features

- Leadless TOLL surface-mount package
- Kelvin-source pin, low package inductance

Typical applications

- Server and AI-rack power supplies
- On-board chargers
- Totem-pole PFC

Description

650 V, 40 mΩ silicon-carbide MOSFET in a TOLL package with Kelvin source.

Key specifications

Parameter	Value
V_{DSS}	650 V
$R_{DS(on)}$ typ., V_{GS} = 18 V, T_{vj} = 25 °C	40 mΩ
I_D, T_C = 25 °C	60 A
Recommended $V_{GS(on)}$	18 V

Full characterization data

Thermal resistance, switching energies and times, capacitances, gate charge and typical characteristic curves for IHSD06R040L1 are available on request: request the full data or write to sales@ironhawksemi.com.

Package

TOLL. Mechanical outline drawing, STEP model and PCB footprint available on request.

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Ordering information

Part number	Packing	MOQ	Lead time
IHSD06R040L1	Tape & reel	On request	On request

Information in this document is believed to be accurate but is subject to change without notice. Typical values are not guaranteed. The customer is responsible for validating suitability in the end application. IRONHAWK · sales@ironhawksemi.com

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