



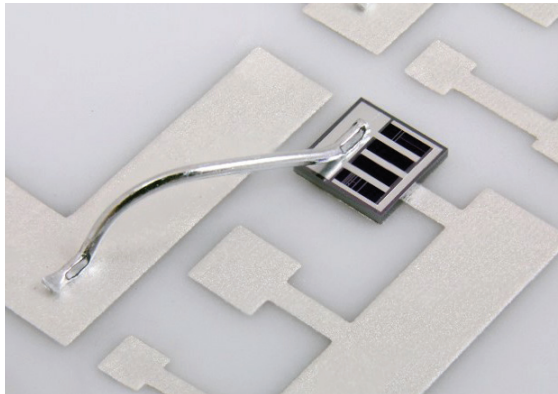
# HIGH POWER, BACK-CONTACT, THIN FILM RESISTOR

## WIRE BONDABLE SILICON CHIP RESISTOR

# SNAPSHOT

### APPLICATIONS

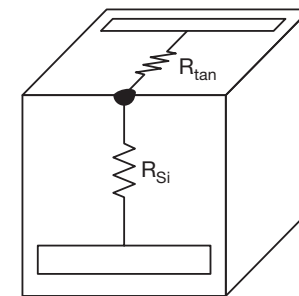
- Gate resistor for IGBT-based power converters
- Current limiting for LED lighting
- High power
- Alternative energy
- Hybrid assemblies



### FEATURES

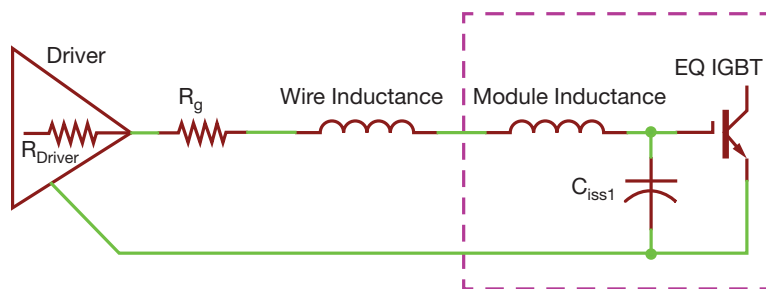
- Low inductance
- Only one wire bond required – up to 6 mils diameter
- Moisture-resistant
- Small size

### BACK CONTACT SCHEMATIC



$$R_{total} = R_{tan} + R_{Si}$$

### SIMPLIFIED ELECTRICAL MODEL OF THE CIRCUIT



### POWER RATING COMPARISONS

Part Type	Case Size	Power Rating
Thin film wire bondable, back-contact resistor on silicon	0808	Up to 4 W
Thin film surface-mount resistor on AlN	2512	Up to 6 W
Thick film chip resistor on AlN	2512	3.5 W