

Enhance Your Automotive Applications with MCC's AEC-Q101 Qualified Digital Transistors

AEC-Q101 Qualified Digital Transistors



Features

- 100mA output current capability
- Built-in bias resistors for simplified circuit setup
- Eliminates the need for external input resistors in inverter circuits
- Automotive-grade with AEC-Q101 certification
- Simplified circuit design with only on/off conditions needed for operation
- Surface-mount device (SMD) for streamlined assembly



Benefits

These optimized components help simplify the BOM and circuit setup by including built-in bias resistors to eliminate external input resistors and easy on/off operating conditions.

A high-output current capability of 100mA ensures these pre-biased transistors deliver reliable performance and efficiency for a host of applications.

Applications



Headlights



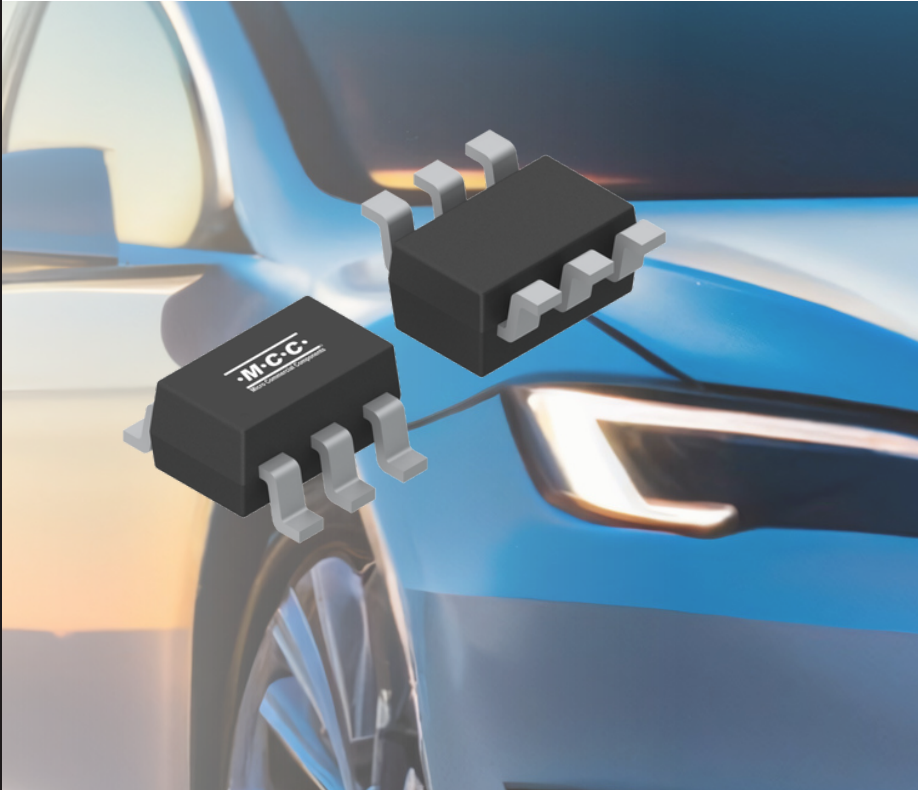
Infotainment Systems



Power Windows

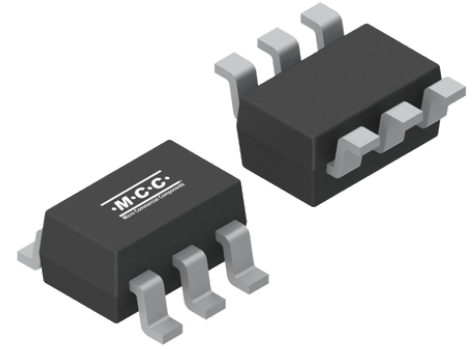
UMD12NHE3-TP
UMD2NHE3-TP
UMH1NHE3-TP

UMH9NHE3-TP
UMH11NHE3-TP
UMH13NHE3-TP



INNOVATE WITH SIX 50V PRE-BIASED TRANSISTORS IN SOT-363 PACKAGE

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Parametrics & Datasheets:

Product	TYPE	Package	Supply Voltage (VCC)	Max Output Current	Input Resistance in K Ω R1/R2	Data Sheet
UMD12NHE3-TP	NPN & PNP Digital Transistor	SOT-363	50V	100mA	47/47	Info
UMD2NHE3-TP	NPN & PNP Digital Transistor	SOT-363	50V	100mA	22/22	Info
UMH1NHE3-TP	NPN & PNP Digital Transistor	SOT-363	50V	100mA	55/22	Info
UMH9NHE3-TP	NPN & PNP Digital Transistor	SOT-363	50V	100mA	10/47	Info
UMH11NHE3-TP	NPN & PNP Digital Transistor	SOT-363	50V	100mA	10/10	Info
UMH13NHE3-TP	NPN & PNP Digital Transistor	SOT-363	50V	100mA	4.7/47	Info

Applications:



Lighting Systems

- Headlights
- Taillights
- Brake lights
- Interior lights



Body Electronics

- Power windows
- Central locks
- Seat controls
- Power mirrors



Infotainment Systems

- Audio systems
- Touchscreens
- Navigations systems
- Connectivity modules



Motor Controls

- Electric power steering (EPS)
- Windshield wipers
- HVAC systems



Safety Systems

- Anti-lock braking systems (ABS)
- Airbag controls
- Electronic stability controls (ESC)
- Tire pressure monitoring systems (TPMS)

CONTACT MCC TO REQUEST A SAMPLE

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