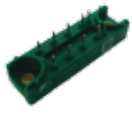




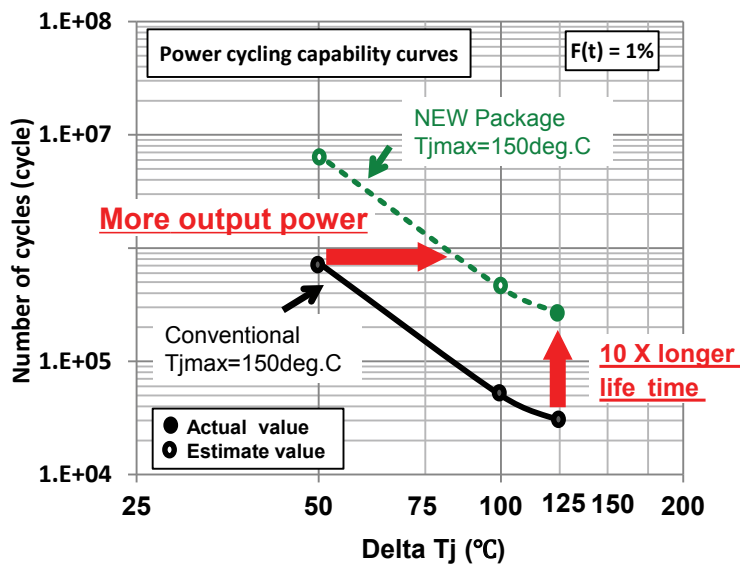
# Fuji Electric Silicon Carbide Modules

## Ultra-Compact Package Size

Type1	Type2	Type3L
60 x 18 x 12 mm	68 x 26 x 13 mm	126 x 45 x 13 mm
		
1200V/50A	1200V/100A	1200V/400A

## Improved Lifetime

- Improved Solder Material
- Epoxy molded Package
- PCB with pin connections to the die replace wire bonds
- 10X longer lifetime when operating at  $T_{jmax} = 150^{\circ}\text{C}$  and  $\Delta T = 125^{\circ}\text{C}$ . [ See Below ]



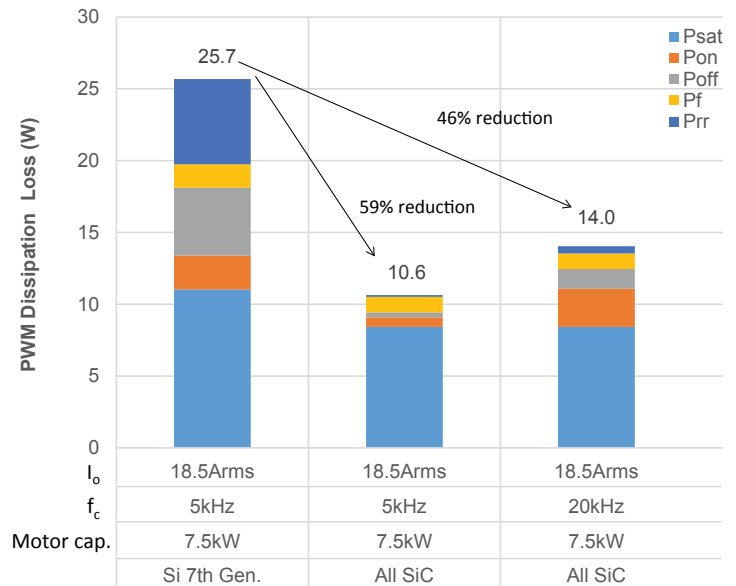
## High Temperature & Reliability

- Our SiC modules utilize a high-Tg ( $T_g = \text{Glass-Transition Temperature}$ ) epoxy resin to reduce thermal stress and mechanical fatigue to achieve an increased endurance under high-temperature operation,  $T_{jmax} = 200^{\circ}\text{C}$ .

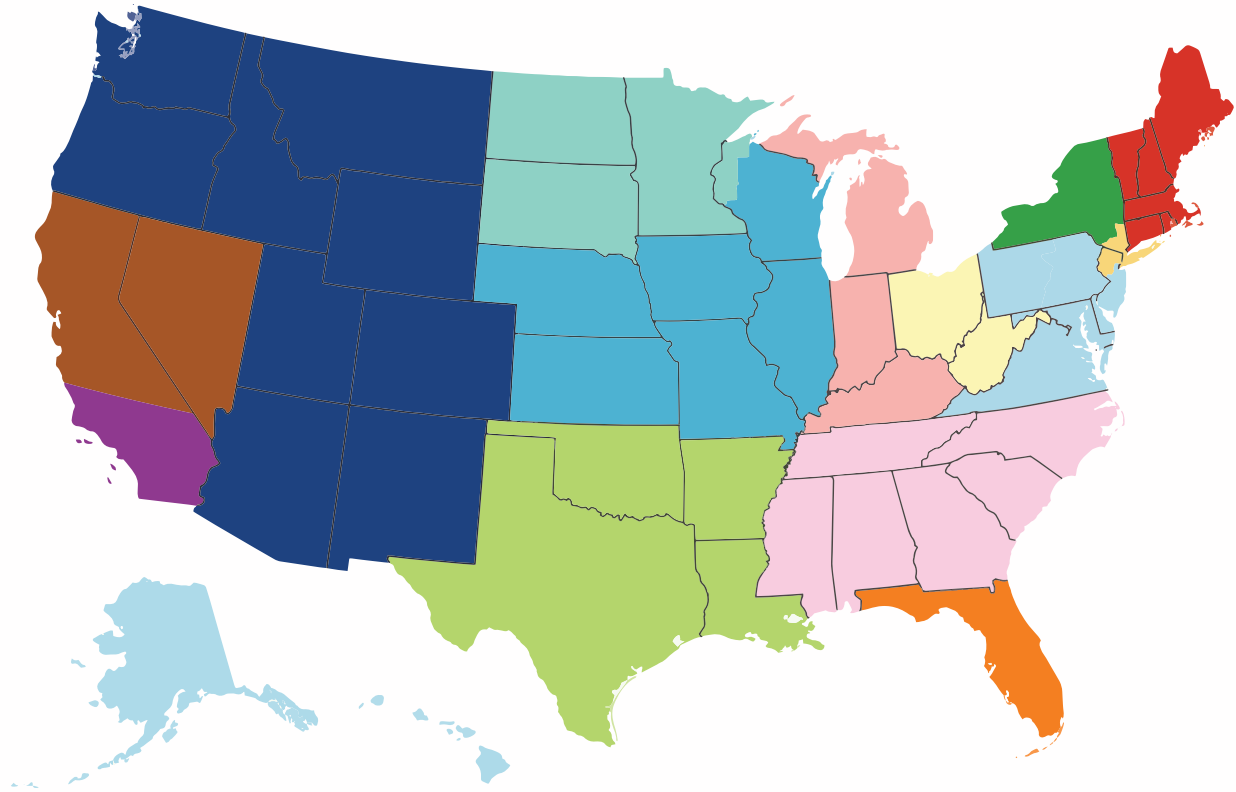
## Lower Thermal Impedance

- The new concept package utilizes a thick internal copper structure, and high thermally conductive SiN ceramic substrate applied to reduce the overall thermal impedance which is key to achieving high power density in Fuji Electric's new concept package.

## Lower Switching Losses



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