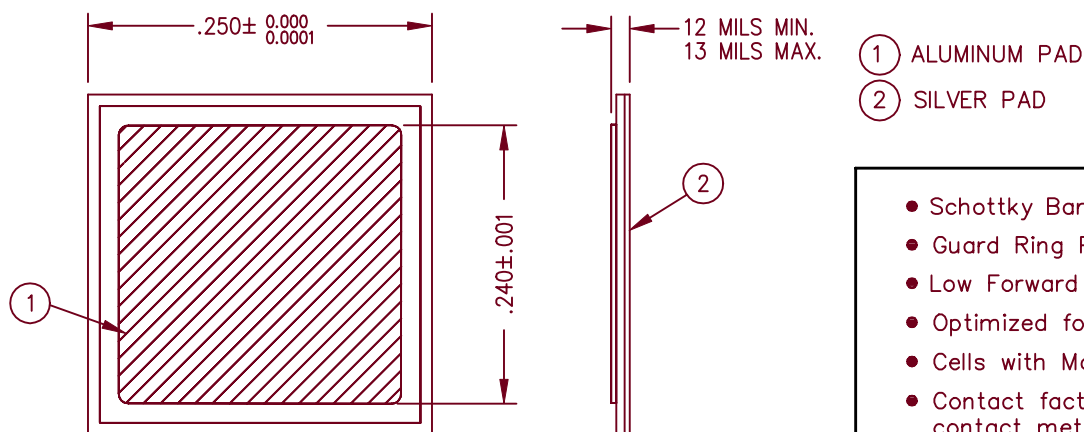


# Schottky Rectifier FET Protection Die CH250S0080



- Schottky Barrier Rectifier
- Guard Ring Protected
- Low Forward Voltage
- Optimized for 42V Bus Operation
- Cells with Moly discs available
- Contact factory for Non-Standard contact metal

## Electrical Characteristics (Properly Packaged)

Max peak forward voltage  
Max peak reverse current  
Max peak reverse current

$V_{FM}$  .91 Volts  
 $I_{RM}$  100  $\mu$ A  
 $I_{RM}$  45 mA

$I_{FM} = 100A$ ;  $T_J = 25^\circ C^*$   
80V,  $T_J = 25^\circ C$   
80V,  $T_J = 125^\circ C$

\*Pulse test: Pulse width 300  $\mu$ sec. Duty cycle 2%

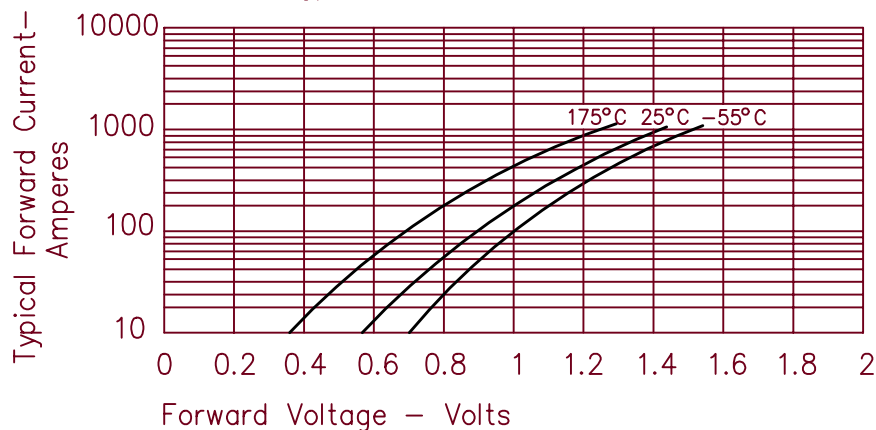
## Thermal and Mechanical Characteristics

Max. Allowable Storage Temperature  
Typical thermal resistance  
Surge current at max  $T_J$

$-55^\circ C$  to  $175^\circ C$   
0.7 $^\circ C$ /Watt  
1500A @ 8.3ms half sine

NOTE: Thermal resistance ( $ROJC$ ), forward voltage drop, and surge current ( $ITSM$ ) ratings are heavily dependent on die to heat sink assembly methods

## Typical Forward Characteristics



7-27-01 Rev. IR