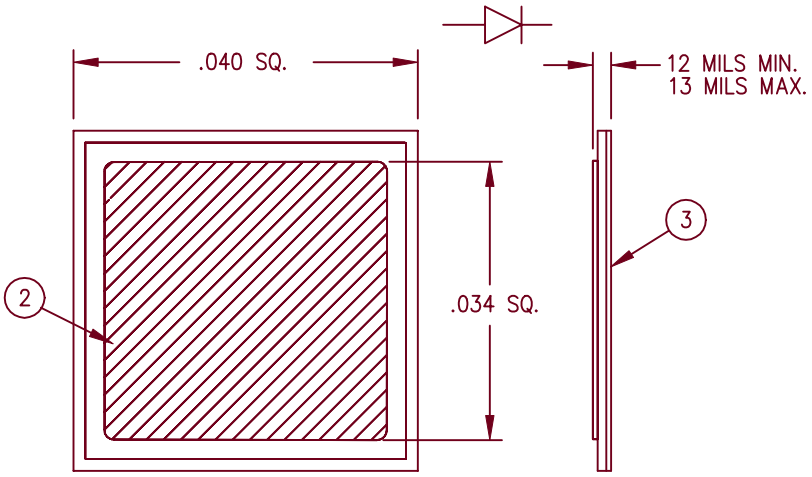
1 Amp Schottky Rectifier Die

CH040S



1. Lot Acceptance testing per customer specifications. Contact factory. MIL–PRF–19500 class K equivalent available upon request.

(2) Anode

(3) Cathode

- Schottky Barrier Rectifier
- Guard Ring Protected
- Low Forward Voltage
- Voltages up to 100V
- LAT testing available (note 1)
- Cells with moly discs available

Electrical Characteristics

	Reverse Voltage	Max. T_J	Typ. V_f @ 1A	Similar to
CH040S0020*	20	150°C	0.45V	1N5817
CH040S0040*	40	150°C	0.55V	1N5819
CH040S0045*	45	150°C	0.58V	LSM145
CH040S0050*	50	175°C	0.67V	HSM150
CH040S0060*	60	175°C	0.69V	HSM160
CH040S0100*	100	175°C	0.84V	HSM1100

* Standard contact metal is Silver. Aluminum anode metal is available on request. Contact factory to specify non–standard contact metal.

Thermal and Mechanical Characteristics

Max. Allowable Storage Temperature	–55°C to 175°C
Typical thermal resistance	15–25°C/Watt
Surge current at max T_J	50A @ 8.3ms half sine

NOTE: Thermal resistance ($R_{\theta JC}$), forward voltage drop, and surge current (I_{TSM}) ratings are heavily dependent on die to heat sink assembly methods.

6–28–01 Rev. 1

COLORADO Microsemi
800 Hoyt Street
Broomfield, CO. 80020
PH: (303) 469–2161
FAX: (303) 466–3775
www.microsemi.com